

SEQ ID NO:1

LENGTH:704

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00001

SEQUENCE DESCRIPTION:

GATCTTCAAA CAAGCATCAG CGTTTTCCAG GGCTTCCCAG AGGTCTGTGC GACTAGCCCG 60
TGTCTATCAA AAGTTATTAG AGAGGATGAA GCATTAGCTT GAAGCACTAC AGGAGGAATG 120
CACCACGGCA GCTCTCCGCC AATTTCTCTC AGATTTCCAC AGAGACTGTT TGAATGTTTT 180
CAAAACCAAG TATCACACTT TAATGTACAT GGGCCGCACC ATAATGAGAT GTGAGCCTTG 240
TGCATGTGGG GGAGGAGGGA GAGAGATGTA CTTTTTAAAT CATGTTCCCC CTAAACATGG 300
CTGTTAACCC ACTTGCATGC AGAACTTGG GATGTCACTT GCCTGACATT CACTTTCCAG 360
GAGAGGACCC TATCCCCAAA TGTGGAATTG ACTTGCCTAT GGCCAAGGTC CCTTGGNAAA 420
GGGAGCTTCA GTATTTGTGG GGGCNTCATA AAACCATGGN TTCAAGNCAA TCCAGCCTCA 480
TNGGGNNGGT CCTGGGNACA GTTTTTTGGT AAAGGCCCTT GGCCAGNTG GGGGGAATGG 540
GCCTCCTTTT TAAGNTTGG GNTGGAATNG TCTNGCAAAT TGGGGCTCCC ATTCNCGGG 600
GGTTTGGGGG TTTTTTNGGG CCTTNCNGG NNGGAAGGN TGGGTTTGGG GGNTNGGTTN 660
CCNTTGGGNG GGCCTGGGGN TTTGATTNA CCCGGGNCTT NGGN 704

SEQ ID NO:2

LENGTH:659

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00002

SEQUENCE DESCRIPTION:

GATCTTTAAA ATACACACTC AAATCAAGAA ACTTAAGGTT ACCTTTNTTC CCAAATTTCA 60
TACCTATCAT CTTAAGTAGG GACTTCTGTC TTCACAACAN ATTATNACCT TACAGAAGTT 120
TGAATTATCC GGTCTGGGTTT TATTGTTTAA AATCATTTCT GCATCAGCTG CTGAAACAAC 180
AAATAGGAAT TGTTTTTATG GAGGCTTTGC ATAGATTCCC TGAGCAGGAT TTTAATCTTT 240
TNCTAACTGG ACTGGTTCAA ATGTTGTNCT CTTCTTTAAA GGGATGGCAA GATGTGGGCA 300
GTGATGTCAC TTAGGGCAGG GACAGGATAA GAGGNTTAG GGAGAGAAGA TAGCAGGGCA 360
TGGCTGGGAA CCAAGTCCA AGCATACCAA CACGGAGCAG GCTACTGTCA AGCTCCCCTC 420
GGAGGCGGNG CTGGTTCACA GCCAGCTGGC ACCAGNTTTT NTNGNGGAAG NCTTTTCAA 480
ACAGTCTCAG GNAATCCAAT NTGCAAAGAC TTGCTTTNAG NAAAACCCAG NAGTTGAAAG 540
GCTCCCAAGN ATTTTAAGGG NACTTNCCAA AACGGGGCCC CNGGNCCCTT TTGGGTTTNG 600
GGGNTCAAAA CCCCAGGAGG GTTTGGGAAG NTTTTAATTG GNTTTAAAA ATNNNTNTN 659

SEQ ID NO:3

LENGTH:625

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00003

SEQUENCE DESCRIPTION:

GATCTAACTG GGTACCTGAG ATATTTNACA GCTGGACCTA GTTTCACAAT CTGTTGTCTC 60

CAGCTCTGCA TATGTCTGGC CAGGGGGCTT CTAGGAAGTA GGTTCATCT ATCAAATGTC 120
 TCCTCTGACT TCCTTTTGAA ACTTACTGCT CTTCTGTTT ATTTTGTTT GTTTGAAGCT 180
 CAGAGGGAGA TGGGCAATTG ACAGGGATGC AATCCAGGGT GGGATTCTT GAGGAAGTTA 240
 CAAATAAGCT TGTACAACA TCAAGATAGA TGGAATTGGA AGGATGCTAC CAGGAGAGTA 300
 CTTACATAGT GCTCAGGAGT TTCTCTTCTT AAAATGTTA CTGCTGAAAG ATGAGCAGGA 360
 CCAGGGCGTT ATAGGCAGAG CCCTAGCCGA GAAACCTGCT GGCCTCTGCC TGTTCATT 420
 TCCCACCTTT GGTGTGTGTG GCATTACTTT CAGAATTGTC ACTTCCTGC TTGTCATGAC 480
 TTTTGTGCA CACTTGCCAT GACGGGTGTT TCTGNGAACC ATGGAAGTTT TGCGGTAGTG 540
 CCTCCAGGGG CAGGGGGNAA GGAGNGGTG TANCTGCATT TNGTNCAAAT AAATCCNGCC 600
 TATTGTTAAT NAACCAGTCT TTTGN 625

SEQ ID NO:4

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00004

SEQUENCE DESCRIPTION:

GATCTGCCAG GCTGGGGTGT TTTCCGTATC TGCTGTTTAC AGGTCTCCAC TGTAATCCGA 60
 ATACTTTGCC AGTGCCTAA TCTCTTTGGA GATAAAATTC ATTAGTGTGT TACTAAATGT 120
 NAATTTTNTT TTGCGGAAAA TACAGTACCG TGTCTGANTT AATTATTAAT ATTNAAAATA 180
 CTTATTCTCT TAACTCTCCC TCATTGCTT TGCCACAGC CTATTCAGTT CCTTTGTTG 240
 GCAGGNTTCT GCAAAA 256

SEQ ID NO:5

LENGTH:616

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00005

SEQUENCE DESCRIPTION:

GATCAAGCTC AAGAATAAGC TGAAATATGG CCAGACTATC AGGCCCATTT NTCTCCCCTG 60
 CACCGAGGGA ACAACTCGAG CTTTGAGGCT TCCTCCAACCT ACCACTTGCC AGCAACAAAA 120
 GGAAGAGCTG CTCCCTGCAC AGGATATCAA AGCTCTGTTT GTGTCTGAGG AGGAGAAAAA 180
 GCTGACTCGG AAGGAGGTCT ACATCAAGAA TGGGGATAAG AAAGGCAGCT GTGAGAGAGA 240
 TGCTCAATAT GCCCCAGGCT ATGACAAAGT CAAGGACATC TCAGAGGTGG TCACCCCTCG 300
 GTTCCTTTGT ACTGGAGGAG TGAGTCCCTA TGCTGACCCC AATACTTGCA GAGGTGATTC 360
 TGGCGGCCCC TTGATAGTTC ACAAGAGAAG TCGTTTCATT CAAAGTTGGT GTAATCAGCT 420
 GGGGGAGTAA GTGGGATGTN TGCAAAAACC AGAAGGCGGC AAAAGCAGGT ACCTGNTTCA 480
 NGGCCGAAC TTTCACATCA NCTNTTCAA GGTNTNCCT GGNTGAGGNG GAACNTCCAN 540
 GTTGGGGGTT TTGGGTTTTT TTAAGGGGTT CNTGTNGCA AGGGGGTTGG GNTTNNTTA 600
 NNCCTGTTNN GNACCN 616

SEQ ID NO:6

LENGTH:615

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00006

SEQUENCE DESCRIPTION:

GATCTCTGCT ATTTTANCCC CCCAAATAAG TTATTTGTCC TTTAAGGTTG GTTACNNATA 60
ATACCCCTCA GTAAGATTCC AGTATTAATT TCTGGGCAGT TTGTTCTCTG TATACAATTG 120
CAAAATGATAA GCATTTTTGT GAGTGACCAC CTTTGCAATA TGTGTTGTTAA TTNTTCATGT 180
TGGGTTCTTT CTGAAATGTA CATCTTTACA TAAAAACCTC ACATTCTACT TGATTACAC 240
TTCCTAGTCT ACATTACATG TGGTTGAAGG TTTTATACAT TCTATATGCT TTTACTAAAT 300
ATACAAGATT TACTACTAGA AATTTGGAGA AAGAACACTA ACACATGTAC TTGTGATTG 360
TTCATGTTAT ATTAACCT TGAGATTGT GTATTTATGT AGGGGGGGT ATTGNCCAGG 420
NCTGNTGGTT TTTTGCTCCN TGGGGCTATT NTAATAAANC NGGGGTATNG GGTTGNTGGC 480
CTNGGTTTGG GCCTAAANTT GGATATATNT GGGGTTCTT NGNTTTTACC AAAATNGNTT 540
TTGGTTGGTA GGGTTNTTAT TGGACCCNNT CCTGGGCCTG GGATAATNTG GCNGNTTCCC 600
NGGANAAAAAN NCCCN 615

SEQ ID NO:7

LENGTH:608

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00007

SEQUENCE DESCRIPTION:

GATCAAACCA AAGGAAAAGT GTTGCTAGAG AAAATTGGGG AAAAGGTGAA AAAGAAAAA 60
TGGTAGTAAT TGAGCAGAAA AAAATTAATT TATATATGTA TTGATTGGCA ACCAGATTTA 120
TCTAAGTAGA ACTGAATTGG CTAGGAAAAA AGAAAACTG CATGTTAATC ATTTTCCTAA 180
GCTGTCCTTT TGAGGCTTAG TCAGTTTATT GGGAAAATGT TTAGGATTAT TCCTTGCTAT 240
TAGTACTCAT TTTATGTATG TTACCCTTCA GTAAGTTCTC CCCATTTTAG TTTTCTAGGC 300
TGAAAGGATT CTTTTCTACA TTATACATGT GTGTTGTCAT ATTTGGCTTT TGCTATATAC 360
TTTACCTTCA TTGTTAAATT TTTGTATTGT ATAGTNTCTT TGGNGGTATC TTAAACCT 420
ATTTTGGAAA ACCAACCTTG GCTTTGNTAA NCATTTGGGC CGCTTGGGTA NGTCCGGACC 480
TNNCCTTNC CCCNAGGGCC TGTCAGGAGN GCCGNTTNN CCGGGNGTT GGNCCGNNG 540
CCTTCCCGAT TTTTNGGGT TGGGTCCTN GGTNCCGGC NTCTGTANGG GGTNCNCCTT 600
TTNNCCN 608

SEQ ID NO:8

LENGTH:606

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00008

SEQUENCE DESCRIPTION:

GATCGCTTCC TAGAAATAAG CAACACCTCT CCCAAAAAGC AGCCCACAAG GCAGGGGCCA 60
GCAGCCCAGC CATCACTCAT CTTNAGGAA ATNAGTTGGT AGCCTCTGTG CACTGTTTGG 120
TGGCCACATC ANNGTGATG TCCTGTTAC ATACCTGCTT GTATTTAAAG CCCTCAGTCT 180
GTCCTGTTGT GTGGGGCGAA GTGATGGACT CTGCCAGGTG GACATGCTGT GGGTGGATGT 240
TCCCGGCGTG TGCCGGCTG AATGGACAGG GGTCACTCA CAAGCATGTC AGGGAAAATC 300
ACTGTCACAC AATTCCAATG GATTTTGTG TCTTTTGA AAAAAAAT TCTTTAGCGT 360
AAACCATGNA TTTTTTTTCA ATGTAGNCCC TTGGGGANTG AANTGAAATT TTGGGCTTCT 420

TCANATNCGN AAAATNAAAT TTTTACCCCT GAGGGGGGGA GCCCCTTCT GAAAGAAGGT 480
 NTGGGCCAAA AGCCCTTTTA ATGNTTGCTG GCCNTTGNTG GTTTTNANNG TCCANTTGC 540
 TTGGGGCGAA NGCCGNNTG ANAAAGGTGG GTTTCNCTGG NGGNTTAAAG GNGGTGGTTT 600
 GNTTTN 606

SEQ ID NO:9

LENGTH:606

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00009

SEQUENCE DESCRIPTION:

GATCTTCANN NGTTAAGCAC TTGCTCTNAA GATTAAAATT CCTTTTCTTT TTAAGGTAA 60
 GGGTGTGTAC GTATGGCAGT GATGTCTATG TTGAGATTAA CTTATGTATT GAGGAAAATT 120
 TGAAGTTTAT TTTTTCGATG AATAAGGCTG TCAAATNATT TAGTATAGAT TAATGACATC 180
 TTTTTTAGAA ATATTAAAGT GAGTATTCCT CATTATGTCA TCATTTCTGA TAATTAGAGT 240
 GCTAATTTGA ATGTTAGATA ATGNTTCCAC ATCTATACCT ATTTCTTCT AGGGCACTTC 300
 TGACCCTGGG GCTTGGGGAT GGCCTTTAGG CACAAGTAGT GTCTGTGTTA AGTTCATAA 360
 ATGTGTATTT AATGAGAAAC ATTCCNATGT AAAAATGTGT GTATGTGAAC GTATGCNNAC 420
 ATTGTTATTG TGCACCGTA CATTGTGAAG AAGTAGTTN GAAATTTTGT AANGCACAAC 480
 CCTTAANGNG GTGTGGAGTT ATTAANTGN TGTAGGCNCA AATGTAATGT TTAGCCTATA 540
 AAAGGCCCTC CTATTGTCCN TNGGCAAGGC TTTGNCNCTT GNAANTAAAN CCCGTNTTGT 600
 TTAAA 606

SEQ ID NO:10

LENGTH:606

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00010

SEQUENCE DESCRIPTION:

GATCAGGGGA GACCCCAACT GCCAGATATA TTTTAATGTA CAAAACGTAA ACCAGATGAA 60
 ATAATGTTCT GTCACGTGAA ATATTTAAGT ATATAGTATA TTTATACTCT AGAACATGCA 120
 CATTTATATA TATATGTATA TGTATATATA TATAGTAACT ACTTTTTATA CTCCATACAT 180
 AACTTGATAT AGGAAGCTGT TTATTTATTC ACTGTAAGTT TATTTTTTCT ACACAGTAAA 240
 ACTTGACTA TGTTAATACC TTGTCCTATG TCAATTTGTA TATCATGAAA CACTTCTCAT 300
 CATATTGTAT GTAAGTAATT GCATTTCTGC TCTTCCAAAG CTCCTGCGTC TGTTTTTAAA 360
 GAGCATGGAA AAATACTGCC TAGGAAAATG CAAAATGGAA ATAGGAGAGA GTAGGTTTTT 420
 CAGCTTAGTT TTGAGGGGGG CCGGTTACCT TGTATATTCC CCCATTACACA TTTGGTGTCC 480
 ATGTGTAGGG GAAGGTAAAG GGGTGGTTCC ATAATCAAGT TCCCCGTGGG GTGTNCCCCC 540
 TGTTAAATGT CCCTGGTTTG GTGTTACCCG GGCTTTATGG GGNCTTTCA TTATTTCCGG 600
 TNGGGN 606

SEQ ID NO:11

LENGTH:598

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00011

SEQUENCE DESCRIPTION:

GATCAACAAA AGATAAACAA ATTTGCACGG AATACAAGTA GAATCACAGA GCTGAAGGAA 60
GAAATAGAAG TAAAAAAGAA ACAACTCCAA AACCTAGAAG ATGCTTGTA TGACATCATG 120
CTTGCAGATG ATGATTGCTT AATGATACCT TATCAAATTG GTGATGTCTT CATTAGCCAT 180
TCTCAAGAAG AAACGCAGAA ATGTTAGAAG AAGCAAAGAA AAATTTGCAA GAAGAAATTG 240
ACGCCTTAGA ATCCAGAGTG GAATCAATTC AGCGAGTGTT AGCANGATT GAAAGTTCAG 300
TTGTATGCAA AATTCGGGAG CAACATAAAC CTTGAAGCTN GATGAAAGTT AAACATTTTA 360
TAATACTTTT TTTATTTGNT TTAATAANCT TGATTATTTG TTTAANATGG TAATTTTCC 420
TTCTTCANAT GCGNNGGGT NAGCAAANCT TTCTTTTTTT AAAAAATTTT CCANTTGTTT 480
AATGGGGAAC TTTGCCNTT TTCCNCATGG CNTGNTNATT NATTTNTNT TTTTAAAGGG 540
GGGCCAGTTT TCCCCNNGG TTTTTGNCT TNNCGGTNT TNCAGGNNTN GGGGGTCN 598

SEQ ID NO:12

LENGTH:597

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00012

SEQUENCE DESCRIPTION:

GATCGACAGA CCTGAAGCCA TCAGTGAAGA GAGGTGCGA GAGATGTTTG GTTTATATGG 60
TCAGACAACA GGAAAGGGGA GTATATCTCT GAAAGAACTG AATGCCCAGC CTTAGAAGT 120
TTTCATGTGT AGTGTGCTCA AAAGACAAGG TTACGGAGAA GGCTCCGCT GGATGGCACA 180
GTACATTGAT TAACACAAAC TCACATTGGT TCCAGGTCTC AACGTTCAGG CTTACTCAGA 240
GATTTGATTG CTCAACATGC ATAATTGAA TTCAATAGAC TTTTGCTNGG TTATAAAACA 300
GATGTTTTTT AGATTATTAA TATTAANTCA ACTTAATTG ANTNGAATT NGAAANCTGA 360
TTCAAGTAAG NTTTGAGTAT CACANTGTTA GCTTTCCTAA TTCCATAAAN GTACCTTGGG 420
TTTTTTNCAG NTTTATAAAT CTGGCCATCA NCCCCNGCGG CCTTTTNGTA AAGGGGCACC 480
TTTTCCNGCA GGCCATTGAG NAGCNCTTTT TTAACCACCT TGGGNTTTTT AACCCTTTTT 540
TNAAGGGNCN NCNTGGTTAA NTTTTTNTT GGGCCTTNC NGGCCTGGT NTTTAA 597

SEQ ID NO:13

LENGTH:593

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00014

SEQUENCE DESCRIPTION:

GATCTTCCAA AGCACTATTT GTTGTAATAA CTTTTCTAAA TGTAAGTGCCT TTAAAGGAAA 60
AATGAACACA GGGAAGTGAC TTTGCTACAA ATAATGTTGC TGTGTTAAGT ATTCATATTA 120
AATACATGCC TTCTATATGG AACATGGCAG AAAGACTGAA AAATAACAGT AATTAATTGT 180
GTAATTCAGA ATTCATACCA ATCAGTGTG AAACTCAAAC ATTGCAAAAAG TGGGTGGCAA 240
TATTCAGTGC TTAACACTTT TCTAGCGTTG GTACATCTGA GAAATGAGTG CTCAGGTGGA 300
TTTTATCCTC GCAAGCATGT TGTATAAGA ATTGTGGGTG TGCCTATCAT ACCANTTGTT 360
TTCTGTATCT TGAAAAAGTA TTCTCCACAT TTTANATGGT TTTATATTNG GGGATTCCCT 420
TAATGCCCCC TTGGNCAAAT TTATATATAT GGGCCCCATN GTTNCNNTT NAATTTTNG 480
GTTTTNGGGT GTAAGGGNCN TGCNCNTATG GTGGGGGCCT CCCAAAANTG GGANCANGNT 540

TTNCCTNNG GACNCCCNNT TGGTTGTTNA GGGGGGCCAA TTTTCNTNC CCN 593

SEQ ID NO:14

LENGTH:574

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00015

SEQUENCE DESCRIPTION:

GATCGTNCTG CAGTGGGAGC GTGTGACTGC GGAAGTTGTG AAGCCACGGG AAACCTCGGAG 60
CCTAGAGCAG CAGCTCAGCG CTTCTATGGG AAGCGGTCTC GAGCAGAAGC CCCACTGAAG 120
TGTCCCCTGG CAGACACCCA CATGAACTCT TCCGAGAAAC TCCAGTTCTA TAAAGAGAAA 180
GCCCCAGATT GCCATGGGCC AGTNTTGAAA CACGAAGCTA TCTCAAGCCA GGAGTCAAAG 240
AAGAGCAAGA AGAGACCTTT TGAGGAGTCA GAGACAGAAC AGAATAACTC TTCACAACCT 300
TCAAAGCAGA AATATGTATG TTTTGCTGTG GAAGACTGGG GACTTGTTAA ATTCTATTG 360
ATTAAGTAGA TACAAGTTGA CCTTCTCTG GCCCCAGCT CTAGTGTGTTG AGTAAAGGGA 420
GACTNAGGGT GGGTTTACTT TTTTNGGTTT GNATTTANCC TATTGGCATT TAGNCATAGG 480
TAAGGCGGTN TTTTCNNCCT TTTNTTGGNT TTGGGNGGGG GATTNTNTNN GGGGNNNNAA 540
AAAAATTNCC ANGGGNTTTT TCCAAANCAT NGGN 574

SEQ ID NO:15

LENGTH:573

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00016

SEQUENCE DESCRIPTION:

GATCAGCCCA GAGGAATGCT GAGAAATCAC CTGGAGGAGG GAGCAGAAAG AGAAGGTTTT 60
TAAGGAGGGG CTTCTGAATA CTTGGGAGAT ACGGAACGGA CCAAGGACCA CACTCCAGGG 120
TGCATTGCTT GCTCCCTGGG GCACCACTTC TGGATTACAG TGTGCCAGGT CCTTTGGAGG 180
CCCTACCCCT TCCCCATTCA TTGCCACCAG TGAGAAATNG GGGTGCCCTT GTGTAAAGAA 240
ACCTACCAA GGTTTACATT TGCACCTTAG CCTCAATAGC TACGAACCTT AGAGAAGCAG 300
CTAGCTGGAG CTCATGTGCA ACTCCTGATT CTCAGGAGAA AGATGGATTT TAACCNAAAA 360
TTATGAGTNA GCTGTAACT CTAAAATGTA CTTNGGGAGA TAGGGCCAAG NGAGAGGTCA 420
TGGGCCAACT TAAGTGTTAT CCNGTAGGAA AGNNCAGGTA NCACTGGNTT TTTTTTTNNA 480
GGGTTGCTNT TNCCTTNTNC TAAANGGATT TGNTANTTCC NTGGGGNTNG NATTTAAATT 540
GGGTTNTAAA AAGNTTNGAC GTGANAAAAA TTN 573

SEQ ID NO:16

LENGTH:567

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00017

SEQUENCE DESCRIPTION:

GATCAAAACA GTCTCACCAG CACCATATCC ACATTCTAGC CCATGGAAAG GGTAAGAAAA 60
AGAAAGTGGA AGATATTAGT TTCCATTTAA GGAAGTGACA TGGAGNTAAT ATAAGTCACC 120
TGTGTTTACA TTCCACTGGC AAAAATTCAG TCACAGGAAT GTACTTAGCT GCAGAGGAGG 180

CTAGGATATG CCCTCCAAAA ACTCAGGGGG GATGTCCTAC TTGTAAAAGG AAGAAATGAA 240
AANTGGACAC TGAGAGGAAA TCAGCAGTCT CAGAGGTAAT ATACTTACAC AAGTTTTTTA 300
AAAACCATAA AATGATGCAG AATGAAGTTT CCACTCTATT CACCATCTAT CCAGTCCTCA 360
TGCTTCCCAN CANGNGGTAA ATNCTTTATT ATTGTGTCAT GGTATCTTTC CAGGGTTTTT 420
CTAAGCAATT TTGCAACNGN TTTTAATTAT GTATCCTNAT TTCCTACNTT ACCCCTTTT 480
TGTCCATGNA NGGNANANTN TCCTGNGGNN TAACCTTCNT GTNTCTTTT TTCCCTNAT 540
ATTTTTTGGC GGTNCCNTNN NTTTGGN 567

SEQ ID NO:17

LENGTH:552

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00018

SEQUENCE DESCRIPTION:

GATCTTACCC GTGACAAAAT GTGTTCCATG GTCAAAAAT GGCAGACAAT GATTGANGCT 60
CACGTTGATG TCAAGACTAC CGATGGTTAC TTGCTTCGTC TGTNCTGTGT TGGTTTTACT 120
AAAAACGCA ACAATCAGAT ACGGAAGACC TCTTATGCTC AGCACCAACA GGTCCGCCAA 180
ATCCGGAAGA AGATGATGGA AATCATGACC CGAGANNNGC AGACAAATGN CTTGAAAGAA 240
GTGGTCAATA AATTGATTCC AGACAGCATT GGAAAAGACA TAGAAAAGGC TTGCCAATCT 300
ATTTATCCTC TCCATGGNTG TCTTCGTTAG AAAAGTAAAA ATGCTGAAGA AGCCCAAGTT 360
TGAATTGGGA AAGCTCATGG AGCTTCATGG TGAAGGCAGT AGTCTTGAA AAAGCCACTT 420
GGGGNCCGNG ACAGGTGCTT AAAGGTTGAA CCGNGCTNGA TTGGTTNTGA ACCCACCAGT 480
CCCAGGAATT CTTGTTTAAA GTTCCAGNCN TTCAATTAGT TGGCAAATTA AAAANGTGCT 540
TNTTTGNGGA AA 552

SEQ ID NO:18

LENGTH:581

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00019

SEQUENCE DESCRIPTION:

GATCGCCGTT CTGGTAAAAA GCTGGAAGAT GGCCCTAAAT TCTTGAAGTC TGGTGATGCT 60
GCCATTGTTG ATATGGTTCC TGGCAAGCCC ATGTGTGTTG AGAGCTTCTC AGACTATCCA 120
CCTTTGGGTC GCTTTGCTGT TCGTGATATN AGACAGACAG TTGCGGTGGG TGTCATCAAA 180
GCAGTGGACA AGAAGGCTGC TGGAGCTGGC AAGGTCACCA AGTCTNCCCA GAAAGCTCAG 240
AAGGCTAAAT CGAATATTAT CCCTAATACC TGCCACCCCA CTCTTAATCA GTGGTGGAAG 300
AACGGGTCTC AGAACTGTTT GTTTCAATTG GCCATTTAAG TTTTAGTAGT AAAAGACTGG 360
TTTAATGATA ACAATGCATC GTAAAACCTT CANGAAGGGN AANGGAGGAA TGNTTTTGTG 420
GGCCCACTTT GGGTTTTNCT TTTTNCGGT GTNGGCAGTT TTTAAGGTTN TTAAGTTTTT 480
TNAAAATNCA GGACCTTTTT TAANTGGNAA CCAACTTTGG CCCAAAAATT TTGTCACCAG 540
ATTTTTTNGG GCCCCNTTTA AAAANGTNTT NATTNGGGAA A 581

SEQ ID NO:19

LENGTH:556

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00020

SEQUENCE DESCRIPTION:

GATCAGCAGG GTTCTTTGTA AATAGTATTT TGAGACACTA AGATGTTTCT ACTGCTACGG 60
AATGTATTTT AAACACATAT CGTTTCTTTT TCTTGAAAA AAAGTTGATT AGGACCACAG 120
NNNNGGTTTA GAAAGGGTAA TATTTTGAAA TACTACAAGG TTTAGACAGT CCATGAAATC 180
GACCTGTTTA ATAATTTACC ATCCTGAAAG TCCAGAATTA AAATATGGAA GCAAGAACTA 240
TATAATTGAT TAGGATGCTT GGTAGGTTTT TTTCATTGTT CAAATATTCA TTGCACAGTG 300
GATTGTTTTG ATTAGTTAGT ATGCTTTTTT TTTAATTAAT TCAGTCTTCT GTTAATTTTT 360
AAGNTTGGT TAGTGCCACA AGGAATTNA CTTNTTGATT TGTATAATNG GAACCTGACC 420
TNGGGATTNG TAGCGGGGNT TTGAAGGGTG GGGACCTNCC CNCAAAATAA GGGGGAGGTT 480
TCCAAANNTT CCNCTGGCCG NCCNNNNATC CCAGGTAAAG GGGGTNGAAA TANTNNGGGN 540
NCCCCCAGG GGAAAN 556

SEQ ID NO:20

LENGTH:555

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00021

SEQUENCE DESCRIPTION:

GATCTGGTAC GAGTGTGTGA AAACATCCCC ATTGTGTTGT GTGGCAACAA AGNGGATATT 60
AAGGACAGGA ANATGAAGGC GAAATCCATT GTCTTCCACC GAAAGAAGAA TCTTCAGTAC 120
TACGACATTT CTGCCAAAAG TAACTACAAC TTTGAAAAGC CCTTCCTCTG GCTTNCTAGG 180
AAGCTCATTG GAGACCCTAA CTTGGAATTT GTTGCCATGC CTGCTCTCGC CCCACCAGAA 240
GTTGTCATGG ACCCAGCTTT GGCAGCACAG TATGAGCACG ACTTAGAGGT TGCTCAGACA 300
ACTGCTCTCC CGGATGAGGA TGATGACCTG TGAGAATGAA GCTGGAGCCC AGCGTCAAGA 360
AGTCTAGTTT TATAGGGAAG TTGTCTGTG ATGTCAGCGG TNCAGCGTGT GTNCCACNTC 420
ATTATTATCT AGCTAAGCGG ACATGTNTTC ATCTGTGGGN TCTTAAGGAG NTGAGTNGNN 480
TNGGNGTNAT NTGGANTTAA AAATAACTTC ATTNTTNGGC CNNATATTTA NGTNTTTTNG 540
CCCGNTTNT CCCTN 555

SEQ ID NO:21

LENGTH:544

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00023

SEQUENCE DESCRIPTION:

GATCGATACA TGCAAAATTA ATGTAGTAAC TCACTTTTCC ATATATTTTN AATGTATATT 60
TCTATTTATG AATACCAATT TATAAAAAAT AATTACACAG AAAAAAATGG AATAGGAAAA 120
ATTATGCATC TAGCACATTT AAAGTGTGCA AATATGAAAA TTTTTCGAGG ATTACATTTT 180
NTNNNTAGGC TGCATATTTT AACTGGCTTT AAAAGTGTAA CACATCACAT AAAAGTACTT 240
TACCCGGTAT GTATTGCATT ATATCATTCG AATAATTATT GGAGTCTAGA TATCGAGCCA 300
TCCCAGGTGT TGGGCGGGGG GAGGGTTGTG GCAAGTTGTC TTTTCAATTT NGNGNGTTTT 360
CCTGTNGCTC CAGGGCAAGT ACCGGGTTGG AAAGCTGCCT GTAAGCGTTG GCACCTTCAT 420
AGNGTAGTGT TTNGGTGNCT TTTTTTNTCG GTTCTTGTA AATTNGGTNCG GTNGGTGGTG 480

TTCAGATGNT TTTTNCNCT NGTTCAGCAA CTTNCCCNNT NNCTTGTCTT GATAGGGNAC 540
NTCN 544

SEQ ID NO:22

LENGTH:538

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00026

SEQUENCE DESCRIPTION:

GATCTCTATC CAGTTGGACA CTTAATTGCT TTCTTCATTC AGAAAGATAG TCATGTTTAC 60
TGGTATATTT GGTCACTCTT AGAACCTGTC CTTACATAT GTTTTTTATG GGACCCATGA 120
ATGGTTAGCC TTTCTGTACT ATTGTAGAAG GAAATAAATA GCGTAAAAA GACCATTGTA 180
GTAAATAAGT TCAAGGGGAA CTTGGGACCA GAAACCACTG GTATGTACAA AAAAGCTGGC 240
AATTTGAATA ACCTCAAGTT TGACAATAAT TTTTAAATTT GAACAGTTAT GATAAATTTT 300
AGTAGTTTTA TACACTAGAT GTGCCTAGAT GGTTCCTCAAG GCTTATAGGA CTGGCTCACA 360
GTTCAACATT TCTAGTGGCT TTTCTTGCGT TTGGGTCTGG GGGGCTGGGG GCAATGGGCT 420
TTTTTCCTTG GGTGGCCAAT CGGTTTCTCT GGTGTGTCAG TTTCCAATCC TTNGGGGGGT 480
CNTTGTGNTN TTNNCGCCC NGNNNGGTNN GTCCNGGGTG TTNGCCGGGN NCNTTTTN 538

SEQ ID NO:23

LENGTH:535

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00028

SEQUENCE DESCRIPTION:

GATCCTGGAA TATGTCGAGG TTATATTACC AGGTATTTTT ATAACAATCN GACAAAACAG 60
TGTGAACGTT TCAAGTATGG TGGATGCCTG GGCAATATGA ACAATTTTNA GACACTGGAA 120
GAATGCAAGA NCATTTGTNA AGATGGTCCG AATGGTTTCC AGGTGGATAA TTATGGAACC 180
CAGCTCAATG CTGTGAATAA CTCCTGACT CCGCAATCAA CCAAGGTTCC CAGCCTTTT 240
GAATTTACG GTCCCTCATG GTGTCTCACT CCAGCAGACA GAGGATTGTG TCGTGCCAAT 300
NNGAACAGAT TCTACTACAA TTCAGTCATT GGGAAATGCC GCCCATTTAA GTACAGTGGA 360
TGTGGGGGGA AATGAAAACA ATTTTACTTC CAAACAAGGA ATGTCTGAGG GGCATGTAAA 420
AAAGGGTTTC ATCCAAAGGA TTTCANAAGG GNGGCTNATT TAAAACCANA NGGAANNGGN 480
AGGAGGCNGG NNGTGAATTT GNNTTTTGGN GGAANTTTTT GNTTNAANNT TNTGN 535

SEQ ID NO:24

LENGTH:528

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00029

SEQUENCE DESCRIPTION:

GATCTACACT TGGATGGATG CAACTTTGAA AGAACTGACA AGTTTAGTAA AAGAAGTCTA 60
CCCAGAAGCT AGAAAGAAGG GCACTCACTT CAATTTTNC AATCGTTTTA CAGATGTTAA 120
AAGACCTGGC TATCGAGTTA AGGAGATTGG CAGCACCATG TCTGGCAGAA AGGGGACTGA 180
TGATTCCATG ACCCTGCAGT CGCAGAAGTT CCAGATAGGA GATTACTTGG ACATAGCAAT 240

TACCCCTTCCA AATCGGGCAC CACCTCCTTC AGGGCGCATG AGACCATATT AAATTCTATT 300
 TACTATTTGT TGAATTTATT TTTCCGTCAG TTATGTAAAA TAAACATACT CTNCCTTCCT 360
 CCCCTGGATT TATTGCCATT TAAGGCTTTT AAAATTCTAA TCAANNTTGT TNANTGCAAT 420
 CATCTGTTTN GGGNGTTNNG TTTTGGGATG TGCTTTTTGN NTGGNTTNCG GNTTAGNCTT 480
 GGNTTGTTTT AATGGCCNTT CNNGTNANAT TTGGNGGNAA NGNGCTTN 528

SEQ ID NO:25

LENGTH:528

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00030

SEQUENCE DESCRIPTION:

GATCAAGGTA TAATGGAAAA ATATACCTAT TCTTGAAGTA GTTTATTATN GTTTTCAAAT 60
 TGATTTATAC CATTATTAAC CTGATGTGGT CTGCTTAAAA AATGAATATA TCAGTATTTA 120
 GAAATAAATT GCAAAGGTGG GAATATATAC TTAAATAATT TGTCTTAAGT AAATTAGCAT 180
 TTGGTAGTCT GANATGGTGA CAGATTACTT GTTAAAATTG TGAAANCTCT GTTGTGTCCT 240
 CTCTNCCTAC ATTTGTCCCT GAGAGTNCTC CACGATTACT AGGTTCTTGA TTCCCTTATA 300
 TGGCAATCAG GCAGAGGCGT TCCTTAAGCA TTAGAGAGTT CTGAAGCTTA AGATTTGTTT 360
 TGGTTGGATG AANGTCCTTA GTACAGTTGA AAANCAGAGC ATTAAGNCT ANTCANTTTG 420
 TTTTGNCTC ACCAGTCATT TTAATAATNNG TNGGAATNCT TTTNNCTCA GTGCTTAAAN 480
 NTTTCCNTTG TTTCAANCTG NNGGGGGTTN GGATTAAACC AGGCCNCN 528

SEQ ID NO:26

LENGTH:527

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00031

SEQUENCE DESCRIPTION:

GATCAGAATG CCCCTCCACT CATGAGACTC TTCATTTTGT CCACTTTGAC AGGAAAAGTG 60
 GGAATGTATG CAGAGCTCTC AAAAGAAACA AAAAAGGCCA AAACGGTGCC TTCAGCCACA 120
 TCCTCTGAAT TGGCCCTGAC TTGGACTAAA TGCACTAATG CAAAATCCCT TGACAAAAGC 180
 GCATAGGTTA TTTCAAACCA GCATTGTTTT TTATGTAACC TGTTTTACCG CATCTTCTCA 240
 GCAGCTTCTG ACCACTGCTC AATTTTCTCC TTTACAGCCA TTGTTCTGGT GGACAAATAA 300
 CCTAGGTACT CCAAATCCTG GCAGGAAAAA TATACAGCAT TATGAANCAG CACTCANGTA 360
 ATCCTAAAAT GGATTTCCAA AGCTGGTTAC ACATGGCCCT GGNAANGTCN TATTGANTTT 420
 ANANGGGCTT TCTTCNTTTC AGGAGTTTNG GTCAACGGTG GCAAATCCNT GGGGTNNTTA 480
 ANTGGNNNGG TTNNTTAANT TNTGNTANTT TCNTNGGGGC CANAGGN 527

SEQ ID NO:27

LENGTH:520

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00033

SEQUENCE DESCRIPTION:

GATCAAAATG GTTGGTGAAC CTCCACATGT CCAGTTCTGT TGCCAAACTT TCCATTGAGA 60

GTATTTGGTG GAGTTTGAAT TTGAGCAAAC TAAATGCCTT CATCTTAGGT AGAAAGGGCC 120
 TGAATCTTCC ATTTTATATT CAAACCTCAT TGTTATTTGG CCTAAGTAAA AAGTCAGATT 180
 TCATTTCCAT TTACCTGAGT TCGCTTTAAA GAGCTTTTCA AAGAGAGCTT TATAGACACC 240
 CACAATTGTC CCCAATCTCT TCATGATGTT GCATTAATAG TTGTTTTTGT CCCTTTCTTG 300
 GAAATGTTAA TGCCAAAGNT TGCCTGAACA TTNGGGCGGG TTTTCTTAAA TTTGAANGTN 360
 TAAAANTTTT NTAANGGGGG AATTNCCAAA NGGGTATTTA AAAGGGTTNG TTTTAACCAG 420
 GTATTGTNGT GGGGGGATGG TCCAATAATC CTCCNGGGGG AGGGCTTTCA AGGGAATCC 480
 CNTTTTNGGG GAAATAAAAA NNGGGTAAA ANNNNTTTN 520

SEQ ID NO:28

LENGTH:514

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00034

SEQUENCE DESCRIPTION:

GATCAGCGAG GCCGACAAGA AGAAGGTGCT GGACAAGTGT CAAGAGGTCA TCTCGTGGCT 60
 GGACGCCAAC ACCTTGCCG AGAAGGACGA GTTTAAGCAC AAGAGGAAGG AGCTGGAGCA 120
 GGTGTGTAAAC CCCATCATCA GCGGACTGTA CCAGGGTGCC GGTGGTCCCG GGCCTGGGGG 180
 CTTGGGGGCT CAGGGTCCCA AGGNAGGGTC TGGGTCAGGC CCCACCATG AGGAGGTAGA 240
 TTAGGGGCCT TTCCAAGATT GCTGTTTTN TTTTGGAGCT TCAAGACTTT GCATTTCCTA 300
 GTATTTCTGT TTGTNAGTTC TCAATTCCT GTGTTTGCAA TGTGAAATT TTTTGGTGA 360
 AGTACTGAAC TTGCTTTTTT TCCGGTTCT ACATGCAAGA GATGAATTTA TACTGCCATC 420
 TTACCGGCTA TTTCTCTTT TTTAATTCCA CTAACTCAG GCCATTTTTT AAAGTTGGGT 480
 ACTTGCAAAG TAAAATAAAC TTTAAAAATT CAAA 514

SEQ ID NO:29

LENGTH:513

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00036

SEQUENCE DESCRIPTION:

GATCATCATT CTTCTGACTC TAGATGGGAC ACTTGACAGT GACTTGAAAC ATTTGCATAT 60
 TCAGGAATGC ATGAGATTTT AAGAGAGCCT ACAGTATGAA ATCATTTTCA CAAAATAAGC 120
 AGCTTGCTTC TGAAATGCTG TCTTTCCAG TAGCTACTCA CCTGCCTCTG GTGGCTGGGA 180
 TTCAGATGCC AAAAACTGT CAGTATCTAT AGACCAGGTC TGTGCCACCT CCTCTCTCCT 240
 CTGTGCTCAG TGAGGAGGCA GTAAATGAAG TTACAGGCTA GCACAATACC TAACTCATGT 300
 TTCCCAGTAC ACCTGTTGGA TATTNCTGT NCCTTTTAAT GGTTCCTCAAG GGANTTAGGT 360
 TTTTGNCTG TTTCCAGNGG TTTCCAGGTT TTCTTTGGGT NCTTTTNAA TTTTNAANTT 420
 CCNAGGGGGG GGGNNTTTT GGNAAAGGGG GGGCAAAGGG GNTTTTTTTT TTNTTGGGCC 480
 NNGNTTTTTG GGGGGAANCT CTTTNNGGTN NCN 513

SEQ ID NO:30

LENGTH:512

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00037

SEQUENCE DESCRIPTION:

GATCTAAATT GTTACATTTT ACCATTTTCAT TCCGAAGTTG GTTTTACTTT ATTAAATGAA 60
GATTTAGTTT TCATATCGTA TACATAGCTG TATAGATTTC AAAATNAGGT TGTTAATTTG 120
TGTCACCTAC TATTTTTGTG TTGGTAATGC TTAAATGCA TACTTAAAAA TGAAGTACTG 180
TTATCTAAGC TACTGTGTTT AGAAAATGTT AAGAATGAGC AGAAATTTT ATAGAAAAGT 240
ATAACGGGAA GANGAGAGAA GATACTGCCA ATAGGCCCTC AANCTTAAAA NAGAAAAACC 300
TTTGCCAGTT TTANGGACAT ATTTTGATTG TTTTCNGTATT CTTAACACCT TTTTAAACAA 360
NGTTCTTGAT AGTACCCACT ATTATTGGGT TTGTTTTATG CCATTATTG ATTCTTGGAT 420
ATTCAAGCAT TTNCAATGTG GCATATTNG NTTTCCNNTN NCCTTNCNTT TTTTNGGNCN 480
NCNTTACCCT TTCCNTTGGG AAGNCANTTN GN 512

SEQ ID NO:31

LENGTH:510

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00038

SEQUENCE DESCRIPTION:

GATCAGCCAG GCACAGAATC TCCAGAACAA CCTAGAGAGT GAATGCTAAT TTGTAGAGCG 60
AACTTCCATT TGGCCCATNA TTTGTAAGT TGTAAGTCT CCAAGTGCCA GANTGCTTAC 120
ACGTTAAAGC AGCACCTTTC CATTTGCCCA CATATTCTTC TTGCACACCC CTTCCATTAC 180
TGCTGAATAG GACATTGCAT GGGAAAGAGTA CAGAGGTGGC AGANTGANGC TAGAGTGGGC 240
AGGNCTAAAG ACTGAGCCCC AGAGTGTCC CAGCAACCGC CACGTACANG GTCTGNAATG 300
NCANGGGCAN GNGTGAGATT GGAANCTGTG TGTGAANGGT AAGCCCTTGC AGTNTTCTG 360
CCTCCCTTTC TTTCTGCCTT TCACCCCNCT TANTTGTNTG GTTNTTGGTT TGCCCGTTCT 420
TCTCTTGGTG GNTGCNCATT TGTTANATGG TGTTAGGGGT GTGGGGNTGA GGTTTTCCCC 480
TTTGATGTGG GNTTNTCCN TTGGGTTTAN 510

SEQ ID NO:32

LENGTH:507

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00039

SEQUENCE DESCRIPTION:

GATCGTGAAG CCCAATGGCG AGAAGCCGGA CGAGTTCGAG TCCGGCATCT CNCAGGCTCT 60
TCTGGAGCTG GAGATGAACT CGGACCTCAA GGCTCAGCTC AGGGAGCTGA ATATTACGGC 120
AGCTAAGGAA ATTNAAGTTG GTGGTGGTCG GAAAGCTATC ATAATCTTTG TNCCCGTTCC 180
TCAACTGAAA TCTTTCCAGA AAATCCAAGT CCGGCTAGTA CGCGAATTGG AGAAAAAGTT 240
CAGTGGGAAG CATGTCGTCT TTATCGCTCA GAGGAGAATT CTGCCTAAGC CAACTCGAAA 300
AAGCCGTACA AAAAATAAGC AAAAGNGTCC CAGGAGCCGT ACTCTGACAG CTGTGCACGA 360
TGCCATCCTT GAGGGACTTG GTCTTTCCNA AGCGGAAATT NTNGGCAAGA GGANTCCNGN 420
GTCAAACCTT GNTTGGCANG NCGGGCTCAT AAANGTTCA TTTTGGNNCA ANNGACNAGN 480
AGGNCCAATT NTGGGNCAAA NAGGNTN 507

SEQ ID NO:33

LENGTH:508

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00040

SEQUENCE DESCRIPTION:

```
GATCAGAAAC TCACCCTAAA TCTNAACGGG TGCCGCTATA ATTNGTNACA TCTGGCAAGA 60
TTTCCCTTTA TGTATATATT TAAACAATCC GCTTGGACAC GAACAAAGCC ACACTTCTAA 120
CTGCTTCTGG CGAACTGATT TAATTTTNAA TTTTNTNCAA TAAAGATATT CTTAGATACT 180
GAAAGAAATA GTTAATGAGT TTNCATTTGT CCTTGAGAAA ATTTGGCTCA AGTCCATTTG 240
GCTGTAGTGT CAACGATGTT TCCAGTAGTG TTTAGGATTT GGTGTCTTCA AAGGTAGTTG 300
ATTAAACCAA GTGTGTCTTT AATATCTTGT ATCAGAATAA CTTTGTATGT TACCAACTTA 360
AATTGCTAGA ATAAGGGTAA ATTGGATACA CAACTGCTGA TTTTAAATTT AGGANCTTTG 420
ACCNNATTTT GGGGTTTTCA AANCCGTTTT TGGNTGCTNT GTATCCTTAT GCTGTTTGGT 480
TNATTTCCAN TAAAAANTTC ACNCNGNN 508
```

SEQ ID NO:34

LENGTH:505

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00041

SEQUENCE DESCRIPTION:

```
GATCTGTAAG TAACTTCACA TTAAAAATG AAATATTTTT TAATTTAAAG CTTACTCTGT 60
CCATTTATCC ACAGGAAAGT GTTATTTTTA AAGNNAGGT CATGTAGAGA AAAGCACACT 120
TG TAGGATAA GTGAAATGGA TACTACATCT TTAAACAGTA TTTCATTGCC TGTGTATGGA 180
AAANCCATTT GAAGTGTACC TGTGTACATA ACTCTGTAAA ANCACTGAAA ANTTATACTA 240
ACTTATTTAT GTTAAAAGAT TTTTTTTAAT CTAGACAATA TACAAGCCAA AGTGGCATGT 300
TTTGTGCATT TGTAATGCT GTGTTGGGTA GANTAGGTTT TCCCCTCTTT TGTAAATAA 360
TATGGCTATG CTAAANGGT TGCATACTGG GGCCAAGTAT AATTTTTNTG GTAATGTGTG 420
GNAAAGGATG NCCAGTTATT GGTTACCNCT TTANGNNATC CNNTAANGGG AACCTTCCCC 480
TNGGTAAAA NCANGNNGTA NANNN 505
```

SEQ ID NO:35

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00042

SEQUENCE DESCRIPTION:

```
GATCTGGAAG GAGCTGTTTT GGATGAATGC AGTATAAAAT GTAAAANCCC TGCTAAATGA 60
AA 62
```

SEQ ID NO:36

LENGTH:503

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00043

SEQUENCE DESCRIPTION:

GATCGAAAGG CACTCCATGA GCTAAAACTG GAAGAGTGGA AAGGCAGACT ACAAGTTACT 60
GAGCACCTCC CTGAGAAAAT TGAAAGTAGT TTACAGGAAG ATGAACCTGA GAATGNTGCT 120
AAGAAAATTG AAGCACTGCT AAACCTTCCT AGAAACCCTT CAGTAATAGA TAAACAAGAC 180
AAGGACTGAA AGTGCTCTGA ACTTGAACT CACTGGAGAG CTGAAGGGAG CTGCCATGTC 240
CGATGAATGC CAACAGACAG GCCACTCTTT GGTCAGCCTG CTGACAAATT TAAGTGCTGG 300
TACCTGTGGT GGCAGTGGCT TGCTCTTGTN TTNTTCTNGN CTNTTTAACT AAGAATGGGG 360
CTGTTGTACT CTCACCTTAC TNATCCNTAA ATNTAAATAC ATACTGATGN TTTGTATTAA 420
TCGNTCCAAT ATATGNNTAC ATGNANTATA TCNACNCNC TTNATNTTT AAGCANGTAA 480
ATAAAACCAT TNGCAATGG AAA 503

SEQ ID NO:37

LENGTH:497

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00044

SEQUENCE DESCRIPTION:

GATCGATAAA GAATTGGCTA GTGGTGAATA CTTTTTGAAG GCAAATCAGA AGAAGCGGCA 60
GAAAATGGAA GCAATAAAGG CTAACAAGC AGAAGCCATC AGTAAGAGAC AAGAGGAAAG 120
AAACAAAGCA TTTATTCCAC CTAAGGAAAA ACCAATTGTG AAACCTAAGG AAGCTTCTAC 180
TGAAACTAAA ATTGATGTGG CCAGCATCAA GGAAAAGGTT AAGAAAGCAA AGAATAAGAA 240
ACTGGGAGCT CTTACAGCTG AAGAAATTGC ACTTAAGATG GAGGCAGATG AAANGAAAAAN 300
GANGAAAAAN NAGTANCATA CCCAAANCTC CTTGNCTNGG ACCTATCTCC TTTTNGTAA 360
AGGGGTTTTT TGGGGTTTTT AGGCCTTTAG GTTNCCCTTT TTTTNGGGGA AANTTTNTT 420
GGGGGGGTTT TTTNNCTTT TTTNGGGGGG GGNNGGGGTT TTNNTCCTG GGNNGGGTTT 480
TCTTTNAAA AATTTT 497

SEQ ID NO:38

LENGTH:498

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00045

SEQUENCE DESCRIPTION:

GATCTTATGG ATGCTGAGCA TGTTCTGCAC TGGTGCTAAT GTCTAATATA ATNTTATATT 60
TACACACATA CGTGCTACCC AGAGATTAAT TTAGTCCATA TGAACATTG ACCCATTGTT 120
CATTGAGACA GCAACATACG CACTCCTAAA TCAGTGTGTT TAGACTTTTC AAGTATCTAA 180
CTCATTTCCA AACATGTACC ATGTTTTATA AACCTCTTGA TTTCCAGCAA CATACTATAG 240
AAAACACCTG CTAACAAAA CACAACCTCT CAGTGTCATC CATTGCTGTC GTGAGAGACA 300
ACATAGCAAT ATCTGGTATG TTTGCAAGCT TTCAAGATAG CCTGAACTTA AAANGTTGGT 360
GCATTAGTTG TATCTGATGG NTATAAATTT TGCCTCCTAG GTTCACTTTG GTGTCCAGGN 420
GCTAAACCTG TGGANCCTAA CTTTCCCCTN ATTGGGGGGG GAATAACCTG GAAAATAAAG 480
GGTTTTTTTC CAGGGNTN 498

SEQ ID NO:39

LENGTH:494

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00046

SEQUENCE DESCRIPTION:

```
GATCTGTGCT GTAGAAAAAC ATTAACCCTT GTTCAAAAAA GAAATGGATA ANCTTGGCCT 60
TTCTAAGTGG TAAGAATGAC CTGTCACAT AATATACTGT ATGTTTACAT TTNATTTAAA 120
TTTAATCTCT TATGTATAGG GTGATAACCT TCCCCAGAAA CAACAGTGAT TGCNATTGTT 180
TTCTAGAAAC TNCTTTAAAG TGCCACATTT GGCAGTACAA ATGAGTCTGA GTGTAATAGC 240
CCAGAGATTT ATATATAGTT GAATGTCTAA NATGGTAAAA TGTGCCACTG TGTCAAGTTA 300
CAGTGGCTTA TGTTTTTCAT AGTAATTCAN ATGANCTTCC TATTTTTGNT AGTAAATGGC 360
CATTTAATAG NATTCCTTGG CCATTTGAGG CTCACTGGCA AATTTTAGGT GCNGGGGGNG 420
GAANCCANTT TTTTANATGG NAATCCTTGG GTTTTTNCCN CCNTNNTNCC TGGNCCNTTC 480
CCCCAAAAAN CCTN 494
```

SEQ ID NO:40

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00047

SEQUENCE DESCRIPTION:

```
GATCAGTTGA CAGTGGCAAT TAAACTGTAA ATAACTTGCC CTGGGGGCCT TTTTTTAAAA 60
AACAAAAACC AAAAAAATTC CCAAACCATA CTTGCTAAAA ATNCTGGTAA GTATGTGCTT 120
TTNTGTGGGG GTGGGATTTG GAAGGGGGGT TGGGTTGGGC TGGATATCTT TGATAGATGTG 180
GACCACCAAG GGGTTGTTGA AAACAAATTG TATTAAATGT CTTTGTGATA GCCTTCTGCT 240
CAAA 244
```

SEQ ID NO:41

LENGTH:283

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00048

SEQUENCE DESCRIPTION:

```
GATCACTGTA AATGAACCTC CCTGTTGGCC GCTCTGTGGA TGANACTTTA AGACTAGTTC 60
AGGCCTTCCA GTTCACTGAC AAACATGGGG AAGTGTGCCC AGCTGGCTGG AAACCTGGCA 120
GTGATACCAT CAAGCCTGAT GTCCAAAAGA GCAAAGAATA TTTCTCCAAG CAGAAGTGAG 180
CGCTGGGCTG TTTTAGTGCC AGGCTGCGGT GGGCAGCCAT GAGAACAAAA CCTCTTCTGT 240
ATTTTTTTTT NCCATTAGTA AANCACAAGA CTTCAGATTC AAA 283
```

SEQ ID NO:42

LENGTH:486

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00049

SEQUENCE DESCRIPTION:

```
GATCAGTTTT CNTTGTAACA CTGGGTTTAA TCTGAATGGC GCTGATTCTN CCAAGTGCAC 60
```

TGAGGAAGGA AAATGGAGCC CGGAGCTTCC TGTCTGTNCT CCCATCATCT GCCCTCCACC 120
 ATCCATACCT ACGTTTGCAA CACTTCGTGT TTATAAGCCA TCAGCTGGAA ACAATTCCCT 180
 CTATCGGGAC ACAGCAGTTT TTNAATGTTT GCCACAACAT GCGATGTTTG GAAATNATAC 240
 AATTACCTGC ACGACACATG GAAATTGGAC TAANTTACCA GGAATGCAAG GGAAGTAAAA 300
 TGCCCATTC CATCAAGACC AGNCAATGGA TTTGTGGNAC TATCCTGCAA ANCCCAACAC 360
 TNTNTTCCA AAGGNTTAAA GGCCACATTT TGGGTGGCC ATTGGTNGG TTATTTNTCT 420
 TGGGAGTTGG GCCCCGGANG GAANTTTGNN TNTGTTNCCN NAANCTTGGG GAACCCTTGG 480
 GTTTNN 486

SEQ ID NO:43

LENGTH:470

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00050

SEQUENCE DESCRIPTION:

GATCCACCAG CTGAGAATTC GTCCGCTCCC GAGGCTGAGC AGGGCGGGGC TGAGTAAATG 60
 CCGGCTTACC ATCTCTACCA TCATCCGGTT TAGTCATCCA ACAAGAAGAA ATATGAAATT 120
 CCAGCAATAA GAAATGAACA AAAGATTGGA GCTGAAGACC TAAAGTGCTT GCTTTTTGCC 180
 CGTTGACCAG ATAAATAGAA CTATCTGCAT TATCTATGCA GCATGGGGTT TTTATTATTT 240
 TTACCTAAAG ACGTCTCTTT TTGGTAATAA CAAACGTGTT TTTTAAAAA GCCTGNGTTT 300
 TTCTCAATAC GCCTTTAAAG GTTTTTAAAT TGTTCATAT CTGGTCAAGT TGAGATTTT 360
 AAGNCCTTCA TTTTAAATT GTAATAAAN GTTTACCACC TTGGATTTT TCAANAAAGG 420
 TCAACCAANC TGCAANGCAC CTGTTAATAA NGGGTCTTA ANTAATTAA 470

SEQ ID NO:44

LENGTH:479

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00051

SEQUENCE DESCRIPTION:

GATCTGTAAG TAACTTCACA TTA AAAAATG AAATATTTT TAATTTAAAG CTTACTCTGT 60
 CCATTTATCC ACAGGAAAGT GTTATTNTNA AAGGAAGGT CATGTAGAGA AAAGCACACT 120
 TGTAGGATAA GTGAAATGGA TACTACATCT TTAANCAGTA TTTCATTGCC TGTGTATGGA 180
 AAANCCATTT GANGTGTACC TGTGTACATA ACTCTGTA AAANCACTGAAA AATTATNCTA 240
 ACTTATTTAT GTTAANNGAT TTTTTTTAAT CTAGACAATA TACAAGCCAA AGTGGCATGT 300
 TTTGTGCATT TGTAATNCT GTGTTGGGTA GAATAGGTT TCCCCTCTT TTGTTAANTA 360
 ATATGGCTAT NCTTTAANGG GTTGCNTACT GGGCCAGGTN TAATTTTTTG TAATGGNGTG 420
 AAAGGGTGCC ATTTTTTTGT CNCACTTNGG GGGTCTCANT GGGGGGNTTC TNNCNGGGN 479

SEQ ID NO:45

LENGTH:477

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00053

SEQUENCE DESCRIPTION:

GATCTCTAAG GAACTCCTGT TGCTAAATAT GAAGAGTATG GAACATTCAT ATAGTCTCTG 60
TGAAGCATGG GGGGAGGGAA GACATTTCTT TTTCTTATAG GCTTTATGCT CAAATGTCAT 120
AGTCTCCTTT CAAAGAATTG TGTTCATTT TAAATGCACC CAGCTTAAGT AGAAGACATT 180
GAAGGATGCA TTAATTTTCA GGAACATTTT TGAATTATGA AAAGATTCCC AATTGAAAAA 240
NTTATTCAAC AAGTAAAAGC TAAGAAATTT CATTGAAATC ATAAGGCAGT TTAAGCATAA 300
NTTGATAAAA ATAGCTGTGT ACTACTAATT AATAGAAAAT CATTCAACCA AGAGANGAGT 360
CANGTGAATA TCGTTTGTGT ATTTGCTAGT GAGTTTCTTT GTAACGTTGG ATTTTATTAA 420
NTGGTTAATN TTTGGTTAGG TATGTCCTAT GTTANTNAAA ANTGGNCCAA NTTTAAA 477

SEQ ID NO:46

LENGTH:476

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00055

SEQUENCE DESCRIPTION:

GATCACCATT AGCAAATGGA AATNACATTT GAAAGCCATT AGACTTATAG GTGATGCAAG 60
CATCTAAGAG AGAGGTTAAT CACACTATAG AGGCATAAGT GGTATCAGTT TTCATTTTCN 120
TAATTGTTTA ANCTGTGTTT TATACCAGTN TTTGCAAGTA ATTGGGTGTT AGCTTGAGAT 180
GGTTAAAGGT GGTGGGGGA GGGACTTCGT TGTAATGGTT TTCCTGTAAA ANATGTTTCC 240
AACTCCNCTG AAATGTTGCT GAAAAGCATG GTGCTGGTAA CAGTTCAACA ATCCCGTGGC 300
TGCTCATTCT TGGCCTACTT TTAATCTCCC ACTTGNNAGC AGGTTAGCGT TTGAAGGGTG 360
GTATGGGAAA AGCCTNGCAT TGCCTGGGCC AAATTCCTTT TGGGGTTCN CTCNTTCCC 420
CNCTTCNCCN TNTCCTTCCT TTCCCCNTN ANGTCNNCC NCTTNCNTTA GGTNN 476

SEQ ID NO:47

LENGTH:472

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00056

SEQUENCE DESCRIPTION:

GATCAAATCT GCACTGTGTC TACATATAGG AAAGGTCCTG GTGTGTGCTA ATGTTCCCAA 60
TGCAGGACTT GAGGAAGAGC TCTGTTATAT GTTTCCATTT CTCTTTATCA AAGATAACCA 120
AACCTTATGG CCCTTATAAC AATGGAGGCA CTGGCTGCCT CTTAATTTTC AATCATGGAC 180
CTAAAGAAGT ACTCTGAAGG GTCTCAACAA TGCCAGGTGG GGACAGATAT ACTCAGAGAT 240
TATCCAGGTC TGCCTCCCAG CGAGCCTGGA GTACACCAGA CCCTCCTAGA GAAATCTGTT 300
ATAATTTACC ACCCACTTAT CCACCTTTAA ACTTGGGGAA GGNNGCNTTT CAAATTAAAT 360
TTAATCNTNG GGGGNTTTTA AACTTTAACC CTTTNNCCNT TNTNGGGGTN GGNANTTGNC 420
CCCNTTAAAG GGGGNCCCC TNCNNGGGG AATAAAACAA NTTNNTTTT TN 472

SEQ ID NO:48

LENGTH:472

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00057

SEQUENCE DESCRIPTION:

GATCAAANCT GCACTGTGTC TACANATAGG AAAGGTCCTG GTGTGTGCTA ANGTTCCCAA 60
TGCAGGACTT GAGGAAGAGC TCTGTTATAT GTTTCCATTT CTCTTTATCA AAGATAACCA 120
AACCTTATGG CCCNTATAAC AATGGAGGCA CTGGCTGCCT CTTAATTTTC AATCATGGAC 180
CTAAAGNNGT ACTCTGAAGG GTCTCAACAA TGCCAGGTGG GGACAGATAT ACTCAGAGAT 240
TATCCAGGTC TGCCTCCCAG CGAGCCTGGA GTACACCAGA CCCTCCTAGA GAAATCTGTT 300
NTANTTTAGC AACCCAGTTA TCCNCNTTAA NNCTGNGGAG AGTGGTCTTT ACATCTTAAT 360
TTTATTCNTG TGGTGGTTNT TACCTTTAAC CCGGTTTCTT ATTTTGGGT TTGTTATTGG 420
CCCTTTTtag GGGTGGTCCC TNTTCCNGGT TGGNTTTCCT TTTTTTGTG TN 472

SEQ ID NO:49

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00060

SEQUENCE DESCRIPTION:

GATCTCATGG TCCGGAATGA CACCCCCTGT GGAACCACCA TTGGACCTAT CTTGGCTTCT 60
CGGCTGGGGC TGCGGGTGCT GGATTTAGGC AGCCCNNAAC TGGCCATGCA CTCTATCCGG 120
GAGATGGCCT GCACCACAGG AGTCCTCCAG ACCCTCACCC TCTTCAAGGG CTTCTTTGAG 180
CTGTTCCCTT CTCTAAGCCA TAATCTCTTA GTGGATTGAG CCCTCTTGGA AAGACTTCTC 240
TGCCATCCCT TTGCACCTGA GAGGGGAAGT TCTCAGCTGA GCTGAAGCTG GATTATTAAT 300
GTGGATTGTC ACTCAGAAA 319

SEQ ID NO:50

LENGTH:461

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00061

SEQUENCE DESCRIPTION:

GATCTTCCTC TAATTGACAG CCTCATTACG GGTCTTACAA AATATGGAAC AGTGTGAGAA 60
AAAACCAGAG AACTCGGCAG AGTCTAACAC AGAGGAAACC TAAAAGGACT GATTTAACCC 120
AAGATGATTT CCACTTGAAA ATCTTAAAGG ATATTTTATG TGAATTTCTT TCTAATATT 180
TTCAGGCATT AACAAAGGAG ACGGTGGCTC AGGGAGTAAA GGAAGGCCAG TTGAGCAAAC 240
AGAAGTGTTT CTCTGCATTT CAAAACCTTC TTCCTTTCTA TAGCCCTGTG GTGGAAGATT 300
TTATTGAAAA TCCTACGGTG AAGTTGATAA GGCCTTTGCT TGGATGGGCT TGGGATAAAA 360
ACCTTTTCCC AAGTTTTAAA GGGTTTCAGG TCTTTAAATC CCTGAAATTT TGGGATTCTT 420
TTCTTGTTCC AGGTTGTTTA AACCTTTTAT TTTTCTCTCC N 461

SEQ ID NO:51

LENGTH:458

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00062

SEQUENCE DESCRIPTION:

GATCTAGCAT ATTTCACTAT TCTGTGGATG AATACATAGT TTGTGGGGAA AACAAACGTT 60
CAGCTAGGGG CAAAAGCAT GACTGCTTTT CCCTGTCTGG CATGGAATCA CGCAGTCACC 120

TTGGGCATTT AGTTTACTAG AAATNCTTTA CCTTAAGCAG CACACACATT TACTACACAC 180
ACAGNCCTAA CAAAGCACTG TGCTTAGAGG GTAAAAAGGA ATCACAAAAC AAGAATCTTT 240
CCAAAAGTTGT CTCATTGAGC AATGTTAAGG CATCTGTATC AAATTATTTT GGATGTAAAG 300
ATTCTGTGT CTCATAATAT GAATGTATTT TTTGATATAC AAGGAACTG GCCATAAAAA 360
TGGTGNGGNA ANCCGCCCN TAATTTTNC CCTGGGGCCC CAATTGGTNN NNTCNANTCT 420
NGGNTTNAGC NTTGTCTC AAATGGGATN CANTTNNN 458

SEQ ID NO:52

LENGTH:459

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00064

SEQUENCE DESCRIPTION:

GATCTATCAC CCAAACATCG ACGAAAAGGG GCAGGTCTGT CTGCCAGTAA TNAGTGCCGA 60
AAACTGGAAG CCAGCAACCA AAACCGACCA AGTAATCCAG TCCCTCATAG CACTGGTGAA 120
TNACCCCCAG CCTGAGCACC CGCTTCGGGC TGACCTAGCT GAAGAATACT CTAAGGACCG 180
TAAAAAATTC TGTAAGAATG CTGAAGAGTT TACAAAGAAA TATGGGGAAA AGCGACCTGT 240
GGACTAAAAT CTGCCACGAT TGGTTCCAGC AAGTGTGAGC AGAGACCCCG TGCAGTGCAT 300
TCAGACACCC CGCAAAGCAG GACTCTGTGG AAATTGGCAC GTGCCACCGN CTGGCGTTCG 360
NTTGTGGCAG TTAATACTT TTCTACAGTT TTCTTAATCA AAAGTGGTCT TAGGTAANCC 420
TGTAAGGNA AGGGGTTTAN NAATTTTANG GTTGGTCTN 459

SEQ ID NO:53

LENGTH:458

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00065

SEQUENCE DESCRIPTION:

GATCAGCTGG CCAACTCAGC CAATCCGCAC ATTTAGCTCT CCAACTACCA TACAACGTGC 60
TTGGTTTAGG TCGGAGCGCA AATNTNCTTG ACCATCTCTA CGTTGGTATT CCCCCTCCAT 120
CTGGAGAAAA ATCTATACGA AANCAAGAGT GGAAGTCAAT NATTCCAAAT NCCCAGCTAA 180
TTGTCAATCC ATACCCTCAC AATGTCCCTC GAAGTTGGAG TGCCAACTG TATCTTACAC 240
CAAGTAATAT TGTNCTGCTT ACTGCTATAG CTCTCATCGG TGTCTGTGTT TTCAATCTTT 300
GGCAATAAAT TGGCATTTTA CCATTTGNCA GGGAAAAGGA AAGGCNGGTT GGNTTGGGGG 360
GAAAACCGGC CAAGGGANGG CCCCCCGGG TTTTCNATTT TTGGNNGGNT TNTTGGGNNT 420
TTTGCCTTTT TAAANTTTTT CCNAANAAAN NGGGANTN 458

SEQ ID NO:54

LENGTH:454

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00066

SEQUENCE DESCRIPTION:

GATCAGTTNC GTGTCCGCNG GAGCAGGCCT TGCTGAGTGA AGACACTGGN ACTAGCTGGG 60
TCCTGGGGTG ACTTGGAGGC TTTGGGCCTA AAAGGGCAGC CTGAACCTGG AGTCTTATCT 120

CCCCCAGGAG CCGAAAGCAC TTTTCTTGAT TTCCCCCAGG AAATCAAGCG CTGCTTCTCA 180
 GCTCCTGTGG TTTTAGTATT TATATATCTG TATCTTCTTT GTAGAAATTT ATTTATTTTT 240
 GAATAAGAAT ACCTGCCTGG AAAAAATTTA AAAGGACGGG AGGGCGAANT GCAAGGGAAG 300
 GCCTCTCCTA TGCCGNCCCA GAGNAGCACT GTACCAATTT CATGTGATTC CTTAACTCTG 360
 TTTAAGGAAG CTCTGAAACT GTCATTTTCT TTGCAGATTG TTNTGAACCT GGAAACCCNG 420
 AATTTATNGN TAANNCTCAN TTNCCACCNG GAAA 454

SEQ ID NO:55

LENGTH:505

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00067

SEQUENCE DESCRIPTION:

GATCGTTGGG GAACCCAGCC CCTTGGAAC TGGGAAGACCC GTGTTTCCTG GACCGCGAAT 60
 CAGTGTGTTG GGCATCAGTG TTTTCTGCAA GGGTTGTGAC CTGAAACTTT TAAAAACCA 120
 CCCACCTTTG GGGGAAGCATT TCTGAATTTA TCCATCACCA ACCATTTCTT CTGGGATACC 180
 ATCAAGTAAC AGCTATTATT TGCCAAGTGG AGCTGTCATT TAATTTGATG CACCTCTGGN 240
 TTCAGATGAA ACATTAAATT GTCTTCCTCG ATTCTCCATC GGGTGTAGAG TTTTAAACT 300
 ATCANTGGCA TTTCAAGTCT TCTGANACAA CATGGCTGTA TGTGCGTGGT CCATAGCACA 360
 GTACATGCAG CATCTAATAA GNGTTTCCAT TTGTAGAATT NTTTCNNCA NACTTNTAGT 420
 TAAANNCAAA ATTTTTTAAT TTGNAAANAA GNGNTGNGTT GGTATTTNN GNTGTTNTT 480
 GTNTNTGGTT GNTNTGTTTA TTNTN 505

SEQ ID NO:56

LENGTH:450

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00068

SEQUENCE DESCRIPTION:

GATCAGAGAC TGGAGAGGTG GAGTGAGAAG TCTCCGCTGC TCGGGCCCTC CTGGGGAGCC 60
 CCCGCTCCAG GGCTCGCTCC AGGACCTTCT TCACAAGATG ACTTGCTCGC TGTTACCTGC 120
 TTCCCCAGTC TTTTCTGAAA AACTACAAAT TAGGGTGGGA AAAGCTCTGT ATTGAGAAGG 180
 GTCATATTTG CTTTCTAGGA GGTTGTTGT TTTGCCTGTT AGTTTGTAGG AGCAGGAAGC 240
 TCATGGGGGC TTCTGTAGCC CCTCTCAAAA GGAGTCTTTA TTCTGAGAAT TTGAAGCTGA 300
 AACCTCTTTA AATCTTCAGA ATGATTTTAT TGAAGAGGGC CGCAAGCCCC AAATGGAAAA 360
 CTGTTTTTAG AAAATATGAT GATTTTTGAT TGCTTTTGTA TTTAATTCTG CAGGTGTTCA 420
 AGTCTTAAAA AATAANGATT TNTANCAGGN 450

SEQ ID NO:57

LENGTH:447

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00069

SEQUENCE DESCRIPTION:

GATCTTTGAT AGTNGAGAAA ATTATGCAAA GTTCCTCAGA AGTNGGTTAT NATGCTATGG 60

CTGGNGATTT TGTGAATATG GTGGAAAAAG GAATCATTGA CCCAACAAAG GTTGTGAGAN 120
 CTGCTTTATT GGATGCTGCT GGTGTGGCCT CTCTGTTAAC TACAGCAGAA GTTGTAGTCA 180
 CAGAAATTCC TAAAGANGAG AAGGACCCTG GAATGGGTGC AATGGGTGGA ATGGGAGGTG 240
 GTATGGGAGG TGGCATGTNC TAACTCCTAG ACTAGTGCTT TACCTTTATT AATGANCTGT 300
 GACAGGAAGC CCAAGGCAGT GTTCCTCACC AATAACTTCA GAGAANGTCA GTTGGAGAAA 360
 AATGANGAAA AAGGGCTGGC TTGAAANTCA CTNTTAACCN NTTANGGTTG CTTGGGTTTC 420
 ANGTTGGCCA NAGTTTTNNN TNNTGGN 447

SEQ ID NO:58

LENGTH:445

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00070

SEQUENCE DESCRIPTION:

GATCACTGAG CAGTTTTCCC AGAGCTCCAT GGGGAAGGCAA GCTCTCCCTC CCAATGGGAG 60
 CCCCCTGTC ACTAACTGTA AACTCAGGCT CAGGCTTCAN CTGCCTACCC CCATCCTCAT 120
 ATTTCTGTCT GTCCCAGCAC CTCAGGAGCA TTCTCATTGT GGCCGGCTAA CTCCGCCTGG 180
 ATGTGAACAG GCAAGCACAG TGGGAAATNA GTCACGTACT TGTATTGCAC AGTGGACACC 240
 TCTAGAGGTC CATTGGTTTA AAGGGATAGG GAAGGAGGAG GGATGAGACC ATCTCCCCCT 300
 CCCAGGAAGT AAATCTAAGT ATCTAAGGTT TTCTTTATNG CCTTNGAGTC AAANTANTAA 360
 CTGGCTAGTA CGGGAGGTGT NTGCTNGGTT TTTTCGGGT GGTTTTTTCC TAATGNAATA 420
 AACTTCATTT NTTGCNTGNT TGGNN 445

SEQ ID NO:59

LENGTH:459

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00071

SEQUENCE DESCRIPTION:

GATCTTCGGT GGCCTCATGT AAACGTGGCA GCCAGCCTCT TCTAGAACCC TAGCCCAGGG 60
 ACTGGAGCAG GAAAGGGACC TTCAAAGTGA AGACTGCCTT GTCCCGCAGC TCCTTCTGGC 120
 TTAGATTGAA ACATGGGCTT CCTAATGGGT TAAATCCTTT AAAACAAGGA GTTGTGGGGG 180
 AAGGGTGTCTG TGCACTCCTA GAGAAAGGTA CACAGTTGCC CGGTTGGGAA TGTGCTTGGC 240
 GCTGACCCTG CGGGCATCTG ACTGGTCTTC CAGCTCAGGA AAAAGAATTT GAAAGAGGCT 300
 TAGCGTGAAG GGGAAATCAA GAGGAGGTTG TNATTTNGGT CGAAGGTGCC TTGGTTTAAG 360
 TCCTNGTAAT TTGTNCTTAT TAATTTTTTT TNATATAATA TNATTTTNTT GGGGGGTAAA 420
 CCATTTTAA ATTAACCAA CCATTTGTCT TNCTNGAAA 459

SEQ ID NO:60

LENGTH:441

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00072

SEQUENCE DESCRIPTION:

GATCAGACAC TTCAAGGTCT AGGCTAGACA TGGCAGAGAT GAGGAGGTTT GGCACAGAAA 60

ACATAGCCAC CATTTTTTCC AAGCCTGGGC ATGGGTGGGG GGCCTTGTCT GCTGGCCACG 120
 CAAGTTCACA TGCNATCTAC ATTAATATCA AGTCTTGACT CCCTACTTCC CGTCATTCC 180
 CACAGGACAG AAGCAGAGTG GGTGGTGGTT ATGTTTGACA GAAGGCATTA GGTGACAAC 240
 TTGTCATGAT TTNACGGTA AGCCACCATG ATTGTTTTCT CTGGCCTCTG GGTGACCTT 300
 AAAAAACCC ATTTGGAAT TGNNGACTTT GAAANGGTGC TCTTGCTTA AGGCTTTNAT 360
 ATNGNGCCTT GTTAATTGG GANGGTCNCT TNAAGGCC NTTTCCTTA NTAANGNG 420
 GGGTTNTTAN GGNTGTAGAA A 441

SEQ ID NO:61

LENGTH:436

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00073

SEQUENCE DESCRIPTION:

GATCCGTCAC TCTTCCTTGT GGTAATCCCT AGACTGGGAG CTCAGGTACT CTTTATGTC 60
 TCTTTGTATG TCTTTAGCAG AGTTCTTGAC ATGTGGTAGG TGCTTAATAA ATNTTGTG 120
 TTTATCAAAT TTTATGGTAG GGAGAGTAAG TCAGCATCGG TATAAAATCG CTTACTCCAC 180
 GTAACCTTCT TTCTGATAGG GTTTGATTTT CTATTAGAAG CTCAATTTTA GTTTTTTTC 240
 ATATTATAAC TAAATATGTT TCCTGAGAGA TAAGAGAAAT AATGTTCTTA CAATAGTTGT 300
 ATGTATCTAA GATAAGACAT ATAGATGCTT AAGACATTTT GTTTCATTG CTATTTACTA 360
 GTGTACTTGA ACCATGGTCA TTTTATAGCC TTTTCCTAGG GACCATGCTT ATTTCTCAAT 420
 AAGGAAATAC CTTCCN 436

SEQ ID NO:62

LENGTH:434

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00074

SEQUENCE DESCRIPTION:

GATCTTTTTT CATCCAGCAG TGGAGTTTAG TACTTAAGAG TTTGTNCCCT TAAACCAGAC 60
 TCCCTGGATT AATGCTGTGT ACCCGTGGGC AAGGTGCCTG AATTCTCTAT ACACCTATTT 120
 CCTCATCTGT AAAATGGCAA TAATAGTAAT AGTACCTAAT GTGTGGGGTT GTTATAAGCA 180
 TTGAGTAAGA TAAATANTAT AAAGCACTTA GAACAGTGCC TGGANCATAA AAACACTTAN 240
 TAATAGCTCA TAGCTAACAT TTCCTATTTA CANTTCTTCT AGAAATAGCC AGTATTTTGT 300
 TGGAGTGCCT ACNATGTTAG TTCCTTNTAC TAGTTGCTTT ACATGGATTA TCTTNATATC 360
 CTGTTTTTAAA GNTTNTTAC AGGTACCAGG TTTTCATGGA ATTTTCCTTT NANTAAANG 420
 GGAGGNNAAN GNTN 434

SEQ ID NO:63

LENGTH:433

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00075

SEQUENCE DESCRIPTION:

GATCTGTGAA TCTTGGCTGG GACTTCCTCT GAGTGATGCC TGAGGGTCAG CTCCTCTAGA 60

CATTGACTGC AAGAGAATCT CTGCAACCTC CTATATAAAA GCATTTCTGT TAATTCATTC 120
 AGAATCCATT CTTTACAATA TGCAGTGAGA TGGGCTTAAG TTTGGGCTAG AGTTTGAATT 180
 TATGAAGGAG GTCATTGAAA AAGAGAACAG TGACGTAGGC AAATGTTTCA AGCACTTTAG 240
 AAACAGTACT TTTCCTATAA TTAGTTGATA TACTAATGAG AAAATATACT AGCCTGGCCA 300
 TGCCAATAAG GTTCCTGCTG TGTCTGGTTA GGCAGCATTN CTTTGTATGC AAATTTCTTA 360
 TTGGNCCCTN TTTTNTTCCA AAAAGGTAAA TGNCTTNNAT TNCCCGGTTA AAAAATNNTT 420
 CCCNGGNNAT TTN 433

SEQ ID NO:64

LENGTH:432

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00076

SEQUENCE DESCRIPTION:

GATCCTGGAG GTCTTTTCTA GTCTGAGCTT CTTTAGCTAG GCTAAAACAC CTTGGCTTGT 60
 TATTGCCTCT ACTTTGATTC TNATAATGCT CACTTGGTCC TACCTATNAT CCTTCTACTT 120
 GTCCAGTTCA AATAAGAAAT AAGGACAAGC CTAACCTCAT AGAAACCTCT CTATTTTAA 180
 TCAGTTGTTT AATAATTTAC AGGTTCTTAG GCTCCATCCT GTTTGTATGA AATTATAATC 240
 TGTGGATTGG CCTTTAAGCC TGCATTCTTA ACAAACCTCT CAGTTAATTC TTAGATNCAC 300
 TAAAANTCTG AGGAACCTCA CATGTAACCTA TTTCTTCAGA GTTTGTCATA TACTGNTTGG 360
 CATCTGAATG GCTACTCAGC ATTTGGTTAA CATTNGNGTA AATTTGGAAT AAANTTCCCC 420
 AGTAAGCCAT TN 432

SEQ ID NO:65

LENGTH:459

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00077

SEQUENCE DESCRIPTION:

GATCCATCGC AGAGTCCTAA AGAAGAACCC ACTGAAAAAC TTGAGAATCA TGTTGAAGCT 60
 AAACCCATAT GCAAAGACCA TGCGCCGGA CACCATTCTT CGCCAGGCCA GGAATCACAA 120
 GCTCCGGGTG GATAAGGCAG CTGCTGCAGC ANCGGCACTA CAAGCCAAAT CAGATGAGAA 180
 GGCGGCGGTT GCAGGCAAGA AGCCTGTGGT AGGTAAGAAA GGAAAGAAGG CTGCTGTTGG 240
 TGTTAAGAAG CAGAAGAAGC CTCTGGTGGG AAAAAAGGCA GCAGCTACCA AGAAACCAGC 300
 CCCTGAAAAG AAGCCTGCAG AGAAGAAACC TACTACAGAG GAGAAGAAGC CTGCTGCATA 360
 AACTCTTAAA TTTGNTTATT CCATAAAGGT CAAATCATTT TGGNCAGCTT CTTTTTTGAA 420
 TAAAAGNCCT GNTTTATACC AGGGCAGTGA GGAACCAA 459

SEQ ID NO:66

LENGTH:626

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00078

SEQUENCE DESCRIPTION:

GATCTACAAA GGCCATGGGA AAAATTCAGA GAGTTAGGAA GGAAAAACCA ATAGCTTTAA 60

AACCTGTGTG CCATTTTAAG AGTTACTTAA TGTTTGGTAA CTTTATGCC TTCACTTTAC 120
AAATTCANGC CTTAGATAAA AGAACCGAGC ANTTTTNTGC TAAAAAGTCC TTGATTTAGC 180
ACTATTTACA TACAGGCCAT ACTTTACAAA GTATTTGCTG AATGGGGACC TTTTGAGTTG 240
AATTTATTTT ATTATNCCCG TTTNGTTTAA TGTCTGGTGC TNNCTATCAC CTCTTCTAAT 300
CTTTTAATGT ATTTGTTTGC AATTTTGGGG TAAGACTTTT TTATGAGTAC TTTTCTTTG 360
AAGTTTTAGC GGTCAATTTG CCTTTTAAAT GANCATGTGA AGTTATACTG TGGGCTATGC 420
ACCAGCTCTC ACCTACNGGG GGNCTTACCT TGGGGGTAGN GNCCATACCA GNCCACTGTA 480
TGTTTACTTC CTCACCCATT TGGNGTTGCC CCANCTTGGT TNAACACTNG GGCANCATTN 540
TGGTTTNAGG GGNCCTTAGG GTTNACCAGN TCNTTTTAAAC NGGNTATTN CCCGGGGTTT 600
TTNAAANTG GCCCAAAATN CTTAAA 626

SEQ ID NO:67

LENGTH:534

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00079

SEQUENCE DESCRIPTION:

GATCAACAGT TCTAGTACTC TTCTTTGTCA GTATATCAAC CTACAGCTAT TGAATGCAAA 60
GCCACAAGAG TGTTTAATGG GGACAGTGGG CACTCTCCTG CTTGAAAACC CACTTGGGCA 120
GAATGGACTC ACCCACCAAG GTCTTCTGTA TGAAGCAGCC AAGGTGTTTG GCCTTCGGAG 180
CAGGAAGCTA AAGCTGTTTC TGAATGAGAC CCAAACGCAG GAAATTACAG AAGACATCCC 240
CGTGAAGACT TTGAATATGA AGACTGTGTA TGTTTCTGTG TTACCAACAA CAGCAGACTT 300
CTAGCATGTA CTTATCAATG TTGTTCCGTC AGCCCTTCCC TAATTACACC TATCCCCTAC 360
ACATACATGC ACATAGNCAC ACACATGNAC AACTTGAAG GTATTTCTTT CAAGGTGTGT 420
GTAAAAATAT GCTGCTTGGN TTTGAATTCA AATGGGGTTG NTTAGGTCAA GTACTTTGNG 480
GCCTNANAGG NATCTTCACA CTTAACCTTA GGCACTTTGT ANGCATTGTT GGGN 534

SEQ ID NO:68

LENGTH:417

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00080

SEQUENCE DESCRIPTION:

GATCTTAGTT GATATTTTGG GCTTGGGGCA GTGAGGGCTT AGGACACCCC AAGTGGTTTG 60
GNAAAGNAGG AGGGGAGTGG TGGGTTTATA GGGGGAGGAG GAGGCAGGTG GTCTAAGTCC 120
TGA CTGGCTA CGTAGTTCNG GGCAAATCCT CCAAAGGGA AAGGGAGGAT TTCCTTAGAA 180
GGATGGCGCT CCCAGTGACT ACTTTTTGAC TTCTGTTTGT NTTACGCTTC TCTCAGGGAA 240
AAACATGCAG GTCCTCTAGT GTTTCATGTA CATNCTGTNG GGGGGTGACA CCTTGGTTCT 300
GGTTAAACAA GCTGTACTTT TAATAGCTGT TNCAGGAAGG GTTAAGGCCA ACTACAAATT 360
AATGTTGGTT GCAAATGTAG TGTGGTTCCC TAACTTTNCG GGGTTTTCTT GAGGAAA 417

SEQ ID NO:69

LENGTH:417

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00081

SEQUENCE DESCRIPTION:

GATCTGCCTG CCCACCAACT GGTGATGGAA GGTTACAAGT GGCACCTCAA TGAGACGGTG 60
CTCACTGTGT GGTCGGCACC AACTACTGCT ACCGTGTGGG AATGTGGCAG CATCTTGGAG 120
CTGGACGAGC ATCTCCAGAA AGATTTTCATC ATCTTTGAGC TGCTCCCAAG AGCACGGGGC 180
ATCCCTCCAA GAGCCGTGCC GCTATTCCCTG TGACCCGCCG GCCTGCCCTC ACCTTTGGCT 240
CGACATGTGC TTGCATTTCT AGCGAGCTGG CGTGGGGGCT GTCTGGTTGT GTCCCAAGAG 300
GTGTTGAGGT AGGTNTTGAG AGCTGAGACT AGTCATGTCT CTCTTTCCAT TACATGAGTT 360
CATATTTTTN TTTTCTNTTT TGTGTTAGTA ATTTGAAAT GAAATTATAA GGAATGN 417

SEQ ID NO:70

LENGTH:415

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00082

SEQUENCE DESCRIPTION:

GATCTTTCTG GGAACACAGC CCNGCTGGCG GCTAACCTGC TGTTTGAGAT GCTATGTGCT 60
CTCCCCAAAG TGACAACCGT CTGAGTCTTG TGCTCTTCAA GACAAAACAG ATTGCGTCGC 120
TGACAAGTTC TCAAGAAGAA CTTATGAGTA AGCAGTCTGA GAACTAAAGA GTTTATGCCA 180
AGAAAACCTT CTGCTGAAAG TGTCATTGCT GGCTGTGAAG TCGGGATAAT CAGTAGAATT 240
CTCACCCAAA CAGCAACATT TCTAAGGAAC TTGGATTAAT TGGGGGAAAA AAAANGGGGT 300
ACTTGTA CTGCTGCTTG TTTTCCCTTG GNTGAAAAGN TGGGGGGTTA AANGGGGGAT 360
NGTGAGGGGG ANTTNCTTN TNNAGGGNTT TNNNTNANC CCATTNNGGN NTNCN 415

SEQ ID NO:71

LENGTH:415

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00083

SEQUENCE DESCRIPTION:

GATCAGAATC ATTAAAAAAT ATTTTGTGTT AGTAAGTTG AAGATTCNN GCTTTNAGGC 60
CTTTCCTATT TTGTCCCAT TATTTTNC A GGCAATCTT TCCATGGAGG GCAGGGTATC 120
CATTCTTTAC CATGGGTGTA CCTGCTTAGG TAAAAATCA TACCAAGGCC TCATACTTCC 180
AGGTTTCATG TTGCGTCTTG TTGAGGGAGG GAGAGCAGT TACTTGCAA CCATATTGTC 240
ACCTGTNCCT GTCACACATC TTGAAAAATA AAACGATAAT AGANCTAGTG ACTAATTNC 300
CCTTACAGT CCTGCTTGGN CCCACCCNAC TGNGGGTNGG CTCCATTGGT NNGTTCCGGG 360
GCCGTNNTT AGGGGNANT TGGGGGNTCG GTTAGGCCTN TNGGTTGGG GAAAN 415

SEQ ID NO:72

LENGTH:410

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00084

SEQUENCE DESCRIPTION:

GATCTCCCN CTCTAGGGGT CAGGCTCCAT TAGGATTG C CTTCCCAN CTCTCCTAC 60

CCAACCACTC AAATNAATCT TTCTTTACCT GAGACCAGTT GGGAGCACTG GAGTGCAGGG 120
 AGGAGAGGGG AAGGGCCAGT CTGGGCTGCC GGGTTCTAGT CTCCTTTGCA CTGAGGGCCA 180
 CACTATTACC ATGAGAAGAG GGCCTGTGGG AGCCTGCAA CTCACTGCTC AAGAAGACAT 240
 GGAGACTCCT GCCCTGTTGT GTATAGATGC AAGATATTTA TATATATTTT TGGTTGTCAA 300
 TATTAAATAC AGACACTAAG TTATAGTATA TCTGGACAAG CCAACTTGTA AATACACCAC 360
 CTCACTCTCG TTACTTACCT AAACAGATAT AAATGGCTGG TTTTGTAGAA 410

SEQ ID NO:73

LENGTH:406

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00085

SEQUENCE DESCRIPTION:

GATCGTGACG CTGAATAAAT GTCTTTTTTT TAATGTGCTG TGTAAGTTA GTCTACTCTT 60
 AAGCCATCTT GGTAAATTTT CCCAACAGTG TGAAGTTAGA ATTCCTTCAG GGTGATGCCA 120
 GGTCTATTTT GGAATTTATA TACAACCGC TTGGGTGGAG AAGCCATTGT CTCGGGAAAC 180
 CTTGGTGTAG TTGAACGAT AGTTACTGTT GTGACCTGAA GTTCACCATT AAAAGGGATT 240
 ACCCAAGCAA AATCATGGAA TGGTTATAAA AGTGATTGTT GGCACATCCT ATGCAATATA 300
 TCTAAATTGA ATAATGGTAC CAGATAAANT TATAGATGGG AATGAAGCTT GTGTATCCAT 360
 TATCATGNGT AATCAATAAA CGGNTTNAAT TCNCTTGGAN TGGAAA 406

SEQ ID NO:74

LENGTH:408

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00086

SEQUENCE DESCRIPTION:

GATCACATTG TAAACTATG GATGGTCTGA TAAGGCTTTN ACTGACCCCA CTGACTTCAG 60
 AGTTATACTC TGTTTGCNAC ATCATAATGC TGTTTTCCT GACTTTTGT NTTTTAATAT 120
 ATTTATAAAA AAAGAAAAAG TTGGTGATTG CATTGGGAAA TTCCCAGGGT ATTACTGGAC 180
 CTATGTGGTG TATTGTTAAA CCAGTGTCCT TGTNATACTG TTGCTCTTGA TGTTCTGAT 240
 ACAGGTAAGG ANGCAAGTTG TCAACTCTNA TACAAAGTAT ATATACAGTT CAGTATTGTC 300
 TCTGTTCAAT TTGTTTTAAT TTCATTGGNC AAANTCAANC CAGCATTCCC CATTTGTGTA 360
 AATAAATGAT TTTCTGGAA TAAAAGGNAA AGGNCTTNA ATTCCAAA 408

SEQ ID NO:75

LENGTH:407

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00087

SEQUENCE DESCRIPTION:

GATCAAATA GCTCAGGCCA AACTTTAAGT TCATACCTGA GCTAAGAAGG ATAATTGTCT 60
 TTTGGTAAGT AGGTCTACAG GTTNCATTT TTCTGTGTTA CACTCAAGGA TAAAGGCAAA 120
 ATCAATTTTG TAATTTGTTT AGAAGCCAGA GTTTATCTTT NCTATAAGTT TACAGCCTTT 180
 TNCTTATATA TACAGTTATT GCCACCTTTG TGAACATGGC AAGGGACTTT TTTACAATTT 240

TNATTTTATT TTCTAGGTAC CAGCCTAGGG GATTTCCGGT TAGGTACTCA TTTTGTATTC 300
 ACTGTCACTT TTTCTCATG GTCCTAATTA TAAATNGNCC CAAAATCAAG GNTTGCCTNA 360
 AAAAGGGGGN AAAATGGTTG GCCCCNNGGT TNTTNGNNC CCCNGTN 407

SEQ ID NO:76

LENGTH:413

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00088

SEQUENCE DESCRIPTION:

GATCTACCGA CTCACTTCTG AGAATATTTT TNACAGATTA TCTTTGGGCC TTTCCATTAG 60
 AAAGCTGTTT GTTTGTCCCC CTGTTGGTAC ATTTGGTTAC CTCATTTTGC CGTTTCAAAT 120
 TGAAAAAGCT CACAGGGGTG TTTTGTGAA TCATTTGCTG AGTCATTTTC TCAAATCATA 180
 TTCCATTGTA TCAGTTAACA TATAGTTTTA AATGTATGTA TTATAAATNT CTGTANCCAA 240
 ATCATTTGAA GGCTTGATAA ATTTNTAACA ANGTTTGTAC ATTTNTCATG AAAGTCACTA 300
 GTAATGCTNG GNGNGGTAGT GCAATGGANT TTTCCNTTTT TCNTCCCTGT GCCCATTTTG 360
 GAGTTGAGAG GGTGTNGGT AATNACTGT ATGGTGTA CA NTGNANCCNA NNN 413

SEQ ID NO:77

LENGTH:417

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00089

SEQUENCE DESCRIPTION:

GATCGGCAAG CCNCNCACTG TCCCTTGCAA GGTGACAGGC CGCTGCGGCT CTGTNCTGGT 60
 ACGCCTCATC CCTGCACCCA GGGGCACTGG CATCGTCTCC GCACCTGTGC CTAAGAAGCT 120
 GCTCATGATG GCTGGTATCG ATGACTGCTA CACCTCAGCC CGGGGCTGCA CTGCCACCCT 180
 GGGCAACTTC GCCAAGGNCA CCTTTGATGC CATTTCTAAG ACCTACAGCT ACCTGACCCC 240
 CGACCTCTGG AAGGAGACTG TATTCACCAA GTNTCCCTAT CAGGGAGTTC ACTGACCACC 300
 TCGTCAAAGA CCCACACCAG AGGTCTCCGT GCAGNGGACT TCAGGNTNCA GNTTGTGGTT 360
 ACAACATAGG GGNTTTTTAT ACAANGGAAA NGTAAAGGTG NNNTTAAAGN GGTGAAA 417

SEQ ID NO:78

LENGTH:404

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00090

SEQUENCE DESCRIPTION:

GATCAGAAGA AACACTCCAA AAATTGAGAT GAAATGTTGG TGCAGCCAGT TATAAGTAAT 60
 ATAGTTAACA AGCAAAAAA GTGCTGCCAC CTTTATGAT GATTTTCTAA ATGGAGAAAC 120
 ATTTGGCTGC ATCCACATAG ACCTTTATGT TTTGTTTTCA GTTGAAAAC TGCCTCCTTT 180
 GGCAACATTC GTAAATNAAG CAGAATTTTT TTTTCTCTTT TTTCCAAATA TGTTAGTTTT 240
 GTNCTTGTA GATGTATCAT GGGTATTGGT GCTGTGTAAT GAACAACGAA TTTTAATTAG 300
 CATGTGGTTC AGAATATNCA ATGTTAGGTT TTAAAAAAG TATCTTGATG GTTCTTNTTC 360
 TATTTATAAT TTCNGACTTT CATAANGTGT ACCCANGANT TTCN 404

SEQ ID NO:79

LENGTH:622

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00091

SEQUENCE DESCRIPTION:

GATCCCCGCA ACTCGCTTGT CCTTGGGTCA CCCTGCATTG CATAGCCATG TGCTTGTCCT 60
TGTGCTCCCA CGGTTCCCAG GGGCCAGGCT GGGAGCCCAC AGCCACCCCA CTATGCCGCA 120
GCGGCCCTAC CCACCTTCAG GCAGCCTATG GGACGCAGGG CCCCATCTGT CCCTCGGTCTG 180
CCGTGTGGCC AGAGTGGGTC CGTCGTCCCC AACACTCGTG CTCGCTCAGA CACTTTGGCA 240
GGATGTCTGG GGCCTCACCA GCAGGAGCGC GTGCAAGCCG GGCAGGCGGT CCACCTAGAC 300
CCACAGCCCC TCGGGAGCAC CNCACCTCTG TGTGTGATGT AGCTTTCTCT CCCTNAGCTG 360
CAAGGGTCCC GATTTTGCCA TCGGAAAAAG ACAACCTCTA CTTTTTNCT TTTGTATTTT 420
TGATAAACAN TTGAAGNTTG GAGCNTGTTA AAATTTATTN TTTGGGGGGA AACCTNAAGA 480
ACTGGGNCTT AATTNNGNG TTCGTGGGAC CCTNTTANNT GGTTTTNAAT NAANCGGTTA 540
NGGAATTAAT CTGTTTTGGA ANANTTGGTT TAAAGNTTAA AAATTTTGGG AAAAAAAGGG 600
GCTTTTTTAA TTTTTGGGT TN 622

SEQ ID NO:80

LENGTH:400

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00092

SEQUENCE DESCRIPTION:

GATCTTCCTT TTTCTNTGA ATNGCTCTG TTGNCTTTTT CTCTTTTTTC TCATGTGTTT 60
TTCCCTCCAC CTCCACCCCT TTCTTTCTTT CTCTCTCTGA TTGAGAGGCA TTNAATTACG 120
TTTTCAGTAG TACAGGCTTC TTGCCGATAT GAAGGGAAGG TTTCAGAAAG AGACCTACTC 180
TGGGTCAATTT AATTTTGAAT ACAGTTTTCA ATCGTTCAAG TTTTGGNNNG NTTATATCTA 240
ATGTGTGTTT CATTTTTTTG GAAAGCTATA TTTTGTATTT AGGAAATGGT ATACTATTTT 300
GCTATTTGTA CTGAGTGAGT ACATTGGCAT AAATATAGAA ATTTATATAT ATACATATAT 360
ATAACTGTGC TNNTTGCCCT TTTTNTGNG GGAAATTGGN 400

SEQ ID NO:81

LENGTH:396

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00093

SEQUENCE DESCRIPTION:

GATCAGACTG TGGCATTGTA AATGTCAACA TTCCAACAAG TGGGGCTGAG ATTGGAGGTG 60
CCTTTGGAGG AGAAAAGCAC ACTGGTGGTG GCAGGGAGTC TGGCAGTGAT GCCTGGAAC 120
AGTACATGAG AAGGTCTACT TGTACTATCA ACTACAGTAA AGACCTTCCT CTGGCCCAAG 180
GAATCAAGTT TCAGTAAAGG TGTTTTAGAT GAACATCCCN NAATTTGAGG GTGTTCCAGC 240
AGCTGTTTTT GGAGAAGACA AAGAAAATTA AAGTTTTCCC TGAATAAATG CATTATTATG 300
ACTGTGACAG TGAATAATCC CCCTATGACC NNAAAGNCCT GATTAAATCA AGAGATTCCT 360

TTTTTAAAAA TCAANTAAAA TTGTNACACC ATAAAA

396

SEQ ID NO:82

LENGTH:400

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00094

SEQUENCE DESCRIPTION:

GATCGATGGT TGACAATCCA GAGTGGTGAA CAGCCCTACA AGATGGCTGG TCGATGCCAT 60
GCTTTTAAAA AAGAATGGAT AGAATGTGCA CATGGAATNG GTTATACTCG GGCAGAGAAA 120
GAGTGCAAGA TAGAATATGA TGATTTCGTA GAGTGTTCG TTCGGCAGAA AACGATGAGA 180
CGTGCAGGTA CCATCAGGAA GCAGCGGGAT AAGCTGATAA AGGAAGGAAA GTACACCCCT 240
CCACCTCACC ACATTGGCAA GGGGGAGCCT CGGCCCTGAA CAGAGCAGCT GCTGATGTCT 300
GGAGGCTGAT TTTCTGTTT TCTGTTCTCC ACTGGAAAGG TTGTTTACGA CAAACCTCCT 360
TGTCAAAGTN TGAAAAATA AAGGATTGCT CCATCCTAAA 400

SEQ ID NO:83

LENGTH:397

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00095

SEQUENCE DESCRIPTION:

GATCTGGGCA CTGTACTTNA GCCTGGGCGA CAGAGAGACC CATCTCAAAN AAAAAATTGG 60
AACCTGAGAA GGGGGTCGTG GGGTCCCCGG GGCCACCGT CTGCACTTGG NATCTNAAGT 120
CGGGGTGGNC TTGTGGGACT NACCCNTTAC CCTGTGGGTT CTGTACTAGC TCCGGGNAAT 180
TGGTGACAGA NTCGAGTTAA ATTGTAGGAC ATCGCGTTGG TGTCTGAGAG GGAGTTGGAG 240
AGCTGGTTGG TGTGGAGGGA AAGGNTTACA CACATGTNAT TTCAGAAGCG TTCTGTGGGT 300
AGAGGAATCG TTTTCTCTTT GAGACTGTTA TGAGTATGTA CAAATTTTAT TTCCTGTAAA 360
AATATTTNCA TTTTAAAAAN TGGTTATTTT CTAGAAA 397

SEQ ID NO:84

LENGTH:390

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00096

SEQUENCE DESCRIPTION:

GATCGAAGAT TTATCCCAGC AAGCACAACT AGCAGCTGCT GAGAAATTCA AAGTTCAAGG 60
TGAAGCTGTC TCAAACATTC AAGAAAACAC ACAGACTCCA ACTGTACAAG AGGAGAGTGA 120
AGAGGAAGAG GTCGATGAAA CAGGTGTAGA AGTTAAGGAC ATAGAATTGG TCATGTCACA 180
AGCAAAATGTG TCGAGAGCAA AGGCAGTCCG AGCCCTGAAG ANCAACAGTA ATGATATTGT 240
AAATNCGATT ATGGAATTAA CAATGTAACC ATATGGANGC AACTTTTTTT TGGTGTCTCA 300
NAGGNGTAAC TGCAGCTTGG TTTGAAANTT TGTTACCTTG TTTCTTATCA TAAAATNAAN 360
NGTTATTNGC TTCCTTTTTT GGNTTGGAAG 390

SEQ ID NO:85

00315

LENGTH:392

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00097

SEQUENCE DESCRIPTION:

```
GATCACTTTC ACTNTCAATT ATTTGCCAGG NCTCACAGAA CTCAGAAAAG CTCAGANCAC 60
TCATGGTTAC TATTTAGTAA AGCAAAAAGA CACAAATNAA AATNAGCAAG TTTGGCCGGG 120
ATTGCAGGCA TGAGCCACTG AGCCCGGCCC CCAACTGTTA CATCAAAATA TTATTTGAGA 180
GTATATGTGT CCTCACGTCC CTAAAACACT AGAAACTGTC AANCTTTTAA TCTTTGTCAA 240
ACTCTCAAAA GTAGTATCTC TGCATTTGCA TGCCTTTGNG TNCTAATAAG GTTGAGTACT 300
GCTTTAAAAG TTTGCTGGNC ATCTNNTTGN TTTTNTTAAAG GACCTGCGGT GGNNAAGGCC 360
NTTCAANANA TTNTTTCNTT AATTNGGGCC TN 392
```

SEQ ID NO:86

LENGTH:393

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00098

SEQUENCE DESCRIPTION:

```
GATCAGTCTG GCTGGTGGTT TAACAGGTGT CACTCTGCAA ACCTGAATGG TGTATACTAC 60
AGCGGCCCTT ACACGGCTAA AACAGACAAT GGGATTGTCT NGNACACCTG GCATGGGTGG 120
TGGTATTCTC TGAAATCTGT GGTATGAAA ATTAGGCCAA ATGATTTTAT TCCAAATGTA 180
ATTTAATTGC TGCTGTTGGG CTTTCGTTTC TGCAATTCAG CTTTGTTTAA AGTGATTGTA 240
AAAAACTCA TTCTGAACAT ATCCATGCGC AATCATGATA ACTGGTTGTG AGNAGTGCTT 300
TTCATTCTTC TCACTTGCCT TTGTTACTTA ATGTGCTTTC AGGACAGCAG ATATGCAATA 360
TTCACCAAAT AAATGTAGGC TGGTGGTAAT AAA 393
```

SEQ ID NO:87

LENGTH:391

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00099

SEQUENCE DESCRIPTION:

```
GATCCAGAAA TACTTAACAC GTGAATATTT TGCTAAAAAA GCATATATAA CTATTTNAAA 60
TATCCATTTA TCTTTTGTAT ATCTAAGACT CATCCTGATT TTAACATCA CACATGAATA 120
AAGCCTTTGT ATCTTTCTTT CTCTAATGTT GTATCATACT CTNCTAAAAC TTGAGTGGCT 180
GTCTTAAAAG ATATAAGGGG AAAGATAATA TTGTCTGTCT CTATATTGCT TAGTAAGTAT 240
TTCCATAGTC AATGATGGTT TAATAGGTAA ACCAAACCCT ATAANCCTGA CCTCCTTTAT 300
GGTTAATACT ATTTANGCAA GGANTGCAGT ACAGATTTGG NTACAGTACG GATTTGNCCA 360
AATAANTTCA NTAAAAGCCT TAAAGCTGAA A 391
```

SEQ ID NO:88

LENGTH:390

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00100

SEQUENCE DESCRIPTION:

GATCAACCCA CAGAACAAAG CGGATTTCCA AGGCATCTCC CCAGAGCGAG CCTTTGCTGA 60
TTTTCTCTTT GCCAGCACCA TCCTGCACCT TGTTGTCATG AACTTTGTTG GCTGACTCAT 120
TCTCATTTAC TTAATTGAGG AGTAGGAGAC TAAAAGAATG TTCACTCTTT GAATTTCTTG 180
GATAAGAGTT CTGGAGATGG CAGCTTATTG GACACATGGA TTTTCTTCAG ATTTGCACTT 240
ACTGCTAGCT CTGCTTTTTA TGCAGGAGAA AAGCCCAGAG TTCACTGTGT GTCAGAACAA 300
CTTTCTAACA AACATTTATT AATCCAGCCT CTGCCTTTCA TTAAATGTAA CCTTTTGCCT 360
TCCAAATTAA GGACTCCATG CCACTCCTCN 390

SEQ ID NO:89

LENGTH:390

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00101

SEQUENCE DESCRIPTION:

GATCTTTCTN AATGTGTATT GATTGGTCTT TTCAGCTACT CTGAACAGAT TACTAAGGCC 60
ATCTCCTCAT CTCTAAGGGA GAAAAATAGT CTGTAGATGA ATAATGTAAG GTAAAGAGTT 120
GCATGTCAGT CTTTGTAAATN ATTTACACTT TAACTTTCTC CAGAACTCAG ACATGATTTC 180
AACATGGTGT TAGATTTGTG CATTTNATTT TCCTGACCAC CTCATTCCAG CCAATGTATG 240
GTTATCCACT CTGTGTGCNA AANCCAATCA TGCNTTTCAC GGCCCTTTAG TTCAGAGAAG 300
TTCTGCACTG ATTTTATAGT TCTTGATGTC TCAATCTTAC ATGTATACCA ATCACAATGG 360
AATAAAAAGT GTTTGAGGTT GTACTGTGGN 390

SEQ ID NO:90

LENGTH:391

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00102

SEQUENCE DESCRIPTION:

GATCCGAGGA GGCAGAACAA GTCCACGGAG TCCCNNGCAG GCCAACGTGC AGCGGCTGAA 60
GGAGTACCGC TCCAACTCA TCCTCTTCCC CAGGAAGCCC TCGGCCCCCA AGAAGGGAGA 120
CAGTTCTGCT GAAGAACTGA AACTGGCCAC CCAGCTGACC GGACCGGTCA TGCCCGTCCG 180
GAACGTCTAT AAGAAGGAGA AAGCTCGAGT NATCACTGAG GAAGAGAAGA ATTTCAAAGC 240
CTTCGCTAGT CTCCGTATGG CCCGTGCCAA CGCCCGGNTC TTCGGCATAC GGGCAAAAAG 300
AGCCANGNAN GCCGCAGANC AGGATGTTNG TAAGGAAANN ATTTANAGCC CCTCCTGGGN 360
GACCTTTGGG ATTCAGTCGN CAGTCAATAA A 391

SEQ ID NO:91

LENGTH:391

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00103

SEQUENCE DESCRIPTION:

GATCTGTGCC AAGCTCAGGG TGTAGCGCTG CAAACGATGA AGCAAGAGAT TCTCATTAAC 60

CTTGTGAAGC AAAAGCCACA AATAACAGAG GAACAACTTG AGGCTGTCAT TGCAGATTTC 120
 TCAGGCCTGT TGGAGAAATG CTGCCAAGGC CAGGAACAGG AAGTCTGCTT TGCTGAAGAG 180
 GGACAAAAAC TGGNGNCAAA AACTCGTGCT GCTTTGGGAG TTAAATTAC TTCAGGGGAA 240
 GAGAAGACAA AACGAGTCTT TCATTCGGTG TGAACCTTTC TCTTAATTT TAACTGATTT 300
 AACACTNTTT GGTGAATTAA TGAAATGNTA AAGACTTTTT ATGTGAGATT TTCCTTATCA 360
 CAGAAATNAA NTNTCCTCCA AATGTTAATA N 391

SEQ ID NO:92

LENGTH:385

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00104

SEQUENCE DESCRIPTION:

GATCTTTTCC CCTGGCCAAA GGGAAAGTTGT ATTAGTCTGT GACATCTTGT GATGCTGTTT 60
 ATCTTGGTTT GACATTGGAG ATACGCTAGT AACTGTGATA CCATACTATA AAACAGAAGA 120
 ATTTTCTGCT ACTAAAAACT GCCTTTTTAC AAAATGACTG TAAATATTTG TAAAATAAAA 180
 TAACACTAAA CTTTAAGCCC AAAAGGAGAG ATAGAGCCAT GTGTTCAAGT GTGGACCTGT 240
 CCGTGGGGCA CAGTGCCACC CCATCACAGT GTTGCTGTCA TCAGGCAAAN GTGAATGTTT 300
 GTTATAGGCA AATTCGNCTT TTGCGAATGG CTTANTTCTG AACTACCTT TCTGGGAAAT 360
 GTTAATANAT TTTAATTNT TCAAA 385

SEQ ID NO:93

LENGTH:381

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00105

SEQUENCE DESCRIPTION:

GATCTTTGAT AGTTTTGGTG AACTCTCTAA AATACATTCA CTGTGGGTCC GACGCAATTT 60
 ATAAAAATNA TGACTCAAG AAGGGAGACC TGTTGTTTC ATTTCTCATC TGTTGGGAG 120
 ATGATTTTAG AGCACTAGAA AGGCACTGGG GAGATTCTCA GCTTAAACA TCCAGCAGTT 180
 TGAAGTATGA TTAGGTACAT CAGGGCTGCA TTGTCAATNT TCTCTTAAAG TCTTTTAA 240
 TTTATAGCAA TTTTTTTTTT CCCGGAGAGT TTAGGTTGCA AGTTTTGGGT TTCTTGTTT 300
 TTTTGTGTTT GCTTCCTGCT TTAATNCTTN AATTNCAGT CATTACTGGT ATTGAAAAAT 360
 AAAATATCTT TAAANCANNG N 381

SEQ ID NO:94

LENGTH:380

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00106

SEQUENCE DESCRIPTION:

GATCTAAGAG ACTCAAGAGC TGGGTTTCTT TCAGCACTCT GTACTGTCCC AAATAGCAAA 60
 CAAATNACTT TGTAGCCAGA TTTCTGAATG GAAATNAGAA ATTGAATTCT CCATGGACTT 120
 TTAGGTTTAT GGGGGAGTTT TAGCTGTGTT TCTTGTTTTT ATTCAGCCA AACATGTCTG 180
 CTTTTGATTT TTTTTTTAAA GTATAAGTGG TCTATATATA TGTCACCTT TTAAATGTAA 240

ATGTTTAAAA AGTAAGCATT TATGTGTTTC CATAACTGAC ATCTGATGCA GACCTCATTC 300
TCTCCCCCTC TTCTACCCTC CTCTTTTCCC CCTTTTCAAT ACTCTTGAT TGGGTTCTAA 360
TAAAATGGGT TGCTTTTTCN 380

SEQ ID NO:95

LENGTH:379

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00107

SEQUENCE DESCRIPTION:

GATCCATACT TGGATGATAT TGATGATGAG ATGGACCCAG AGATAGAAGA AGCTTATGAA 60
AAGTTTTGTT TGAATCAGA GCGTAANGNA NAACAGTAAA GTTAAATTTC AGCATATCAG 120
TTTATAAAG CAGTTTAGGT ATGGTGATTT AGCAGAACAC AAGAGAGCAA GAAAATGTGT 180
CACATCTATA CCAAATTGAG GATGTTGAGT TATGTTACTA ATGTATGCAA CTTTAATTTT 240
GTTTAACACT ATCTGCCAAA ATAACTTTA TTCCCTATAA CTAAAATGT GTATATATAT 300
ATAATAGTTT ATTATGTACA GTTAATTCTA CTGTTTTGGC TGCAATAAAA TCGATTTTGG 360
AAATAAATGG AATGTTGGN 379

SEQ ID NO:96

LENGTH:384

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00108

SEQUENCE DESCRIPTION:

GATCTTTGCT GGCAAGCAGC TGGAAGATGG ACGTACTTTG TCTGACTACA ATATTCAAAA 60
GGAGTCTACT CTTTCATCTG TGTGAGACT TCGTGGTGGT GCTAAGAAAA GGAAGAAGAA 120
GTCCTACACC ACTCCCAAGA NGAATAAGCA CAAGAGAAAG AAGGTTAAGC TGGCTGTCCT 180
GAAATATTAT AAGGTGGATG AGAATGGCAA AATTAGTCGC CTTGTCGAG AGTGCCCTTC 240
TGATGAATGT GGTGCTGGGG TGTATTATGGC AAGTCACTT NGNCAGACAT TATTGTGGCA 300
NATNTTGTCT GACTTACTGG TTNCAACAAN CCCAGAAGNC ANGTNAACTG TNTGANGTN 360
ATNAAAAGNC ATGTNCTGAA CAAA 384

SEQ ID NO:97

LENGTH:583

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00109

SEQUENCE DESCRIPTION:

GATCCTCATG AATGACTATC CTAAATTTAA GTATGCAGTT CTNTTTTTCG TGGGTTTATT 60
CGTGCTGGTT CATCGNGAGT NAGANGCCTG CCTTGCTGTT CCTGGGAAGA TGCCATAGTT 120
TTCGTTACTG GATGTTTGGA GTAGATACTG GTCTGTNATT GGTGGAATGG AGAACACACG 180
TGTTGGTGCT TCTGGGTAGC ACTGGTTTGC ATTAGTTTAT GTTCCATGC CAGAGTTTGT 240
GTGGGCGGGC GCATGTCCAC CACAGAGTGC ACTCGAGGGG ACTTTCAGTC ACAGGATTTTC 300
ATAATTGTNA TTGTCACACT TTCAAATTTT TGTACATCAG TGAATTTTTT TTATATTAAA 360
AGGTTGAGCC AAAGCCCCCA GTGTTTTGTA TTTTGAAGCC AAGCTTCACT TCTAAAAGTG 420

CCTACAGAGG ACTTGTA AAA TGGAAAATGC AGCTCTGCAC GGAGTTTGAA ACCGTCATAC 480
CTCCTTCTAT TAGGGAATNG GCATATACTG AGGGTGGTCC GGAAGNNNTT AACTTCCTAA 540
AATTTTAAAA TAAAAGGCCT TTGCACCATT GGACCCCNNTT AAA 583

SEQ ID NO:98

LENGTH:370

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00110

SEQUENCE DESCRIPTION:

GATCAAGAAA AGCAACTTAT GGAAACAAC TACAGAATT CAAAAAAGGA TACTCAAACC 60
AAAAGTATTA TTTCAGAGAC CAGTAATAAA ATTGACGCTG AAATTGCTTC CTAAAAACA 120
CTGATGGAAT CTAACAAACT TGAGACAATT CGTTATCTTG CAGCTTCAGT GTTTACTTGC 180
CTGGCAATAG CATTGGGATT TTATAGATTC TGGAAGTAGT ATTAATGCTC ATCCTGCTGT 240
GGCTGTTGGC TTCTTAGAAC ACCAAACCGG GAGAGATTTA CTTTGAACAT TGTCAGTTGC 300
AGCAAAATT TACTACACAA GATTATTCGA AGTGATACG GACTAAAAGA GGAAGTGTTT 360
TAGAATGAAA 370

SEQ ID NO:99

LENGTH:384

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00111

SEQUENCE DESCRIPTION:

GATCTGAAGA GCGTCCTGGG TCAACTGGGC ATCACTAAGG TCTTCAGCAA TGGGGCTGAC 60
CTCTCCGGGG TCACAGAGGA GGCACCCCTG AAGCTCTCCA AGGCCGTGCA TAAGGCTGTG 120
CTGACCATCG ACGAGAAAGG GACTGAAGCT GCTGGGGCCA TGTTTTTAGA GGCCATACCC 180
ATGTCTATCC CCCCCGAGGT CAAGTTCAAC AAACCCTTTG TCTTCTTAAT GATTGNCCAN 240
AATACCAAGT CTNCCCTCTT CATGGGAAAA GTGGTGAATT CCACCNA AAA ATAAGTGNCT 300
GTNGGTNCTC AACCCTTNC NNTTCATCCN TGGGCCCN TN GGCTTGGATN GANAATTAAA 360
AGAAGGGGTT GNGGCTNGGG NAAA 384

SEQ ID NO:100

LENGTH:374

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00113

SEQUENCE DESCRIPTION:

GATCTTTGAA ACCTTGGTCC CGTAACTTA CTAGTCACAT TGACCAATGT TTTATAGAAA 60
TGCCTAGAA TTTGAGACTA ATNGTAGTTA TCCATTAACA TTCCAAAAGT TTTGTNCTTT 120
TNAAAATTTG TNTTGTAAT TATCACATTT NTNCCTCTTA CCTTCCTTTA AATGGCCACA 180
GTGTGTACTG CTGGANTGTN CCATCCAAAA GATGTAGCTT CAGANGCACA GTGATTGCC 240
CAGGGTCCAT GAGATATTGT TTGTATTATG ANGTTGGAGT GCTGTCTACT GAAATTATAC 300
TCTTAAATA NTATGTATGT NGTGTGTAAT ATTCCTAAT AAATNCTTTN GATAAACTAA 360
AAACTNNNG CTNN 374

SEQ ID NO:101

LENGTH:382

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00114

SEQUENCE DESCRIPTION:

```
GATCTGTGCA AGGTATTAAC GTGTCAGGGC TGAGTGTCT GGGATTTCTC TAGAGGCTGG 60
CAAGAACAGC TTGTTTTGTC TTGCGGGTCT GTCAGGGTTG GAAAGTCCAA GCCGTAGACC 120
CAGTTTCCTT TCTTAGCTGA TGTCTTTGGC CAGAACACCG TGGGCTGTTA CTTGCTTTGA 180
GTTGGAAGCG GTTTCATTT ACGGCTGTAA ATGTATTCAT TCTTAATTTA TGTAAGGTTT 240
TTTTTTGTAC GCAATTCTCG GATTCTTTTG AAGNAGATGA CAACAAATTT NGGTTTTCTA 300
CTTGTTATGT GAAGACCATT AAGGCCCCAA GCAACAAGNC AATTNTGTAA GGGAAANTNA 360
AAGTTCCTTG CNGTAANCCA AA 382
```

SEQ ID NO:102

LENGTH:368

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00115

SEQUENCE DESCRIPTION:

```
GATCTGTCTC TGCTGTTTAA CTTTATTGGA TTAATCAGCT GGTTCCTCACT CTACTGCGAA 60
ACAAAAATAG CTCCTTAAAA GTACTGTTCT CCTTCAGTGG CATGTAGTTA TCTAATCAAG 120
ACACCTCATT CAAACAAAAC CTGCCTTAGG AAAATTTAAT ATATTNAAA TNATTTTAAA 180
AGAAATACAA CATCTTATTC TTTAGCTTTC TTAATCGGTG CTTTATGGAG GCCAGTGTA 240
CGNTACATGA CTCGTTGAGA AAGTTGAGGA ATTTCTCTA CCACCTTTGT TGCTTGAAGA 300
AAAACATGTC TTTTCAAAAT GAGAGGCTT CATTGAAGAA AAGAAAAAAA CAACAGTTAA 360
AAGCTAAA 368
```

SEQ ID NO:103

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00116

SEQUENCE DESCRIPTION:

```
GATCTCGGAT GACCAAACCA GCCTTCGGAG CGTTCCTCTGT CCTACTTCTN ACTTTACTTG 60
TGGTGTGACC ATGTTTCATNA TAATCTCAAA GGAGAAAAAA AACCTTGTA AAAAAGCAAA 120
AATGACAACA GAAAANCAAT CTTATTCCGA GCATTCCAGT AACTTTTTTG TGTATGTNCT 180
TAGCTGTACT ATAAGTAGTT GGTGTGTATG AGATGGTTAA AAAGGCCAAA GATAAAAGGT 240
TTCTTTTTTT TCCCTTTTTT GTCTATGAAG TTGCTGTTTA TTTTTTTGGG CCTGTTTGAT 300
GTATGTGTGA AACANTTGTN GTCCAACATT AANCAGGANT TTTATTTTNC NGAGTNGTNC 360
TANCAA 367
```

SEQ ID NO:104

LENGTH:366

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00117

SEQUENCE DESCRIPTION:

GATCTTAGTA ACTATGNATG AAGATGGTGC TTGGCCTGTN CTCCTTGATG AATTTGTTGA 60
GTGGCAAAAA GTCCGTCAGA CATCATAGCA AGAACTATGT GAAGAAAATG CAAACCTTTC 120
AATCCCACG TGTATACAAG CTAATGTGAT GAGGGGGAAA AAAATCCAAC GGGTGCATTT 180
TCATTATAT GAAAGACTTC TCATAGTACT TTTTTTCCN TTTTTTAAA GGAGGTTTTT 240
CTTGTTACAT GTGATGGGCA TTGAGCCACA CCNNTTCTTA GACTGAATAT NGAAGTTTTT 300
GTTTGAGTT ATGTTTATAA CATTTATTTT AGAACANTAA TGATTCAGAT TTGTGACAAA 360
GGCAAA 366

SEQ ID NO:105

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00118

SEQUENCE DESCRIPTION:

GATCCCCGAA ATTGGTGGGC TTGACCTCCT GGCAAATTGC TGCGTCTTTC CACTTGCTGT 60
TCAGGACCAC TAAATGCTGA AATNTGGATG CATAACGAAA TAAAAGNAAT TCATTGTGTA 120
AA 122

SEQ ID NO:106

LENGTH:364

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00119

SEQUENCE DESCRIPTION:

GATCTTCAAT ATGAAGACAT GAGCTTTTCT CGCAGGAAAT TTTCTTTTTC ACAGAACTGG 60
TGTCAGGAAT CACTGAAGGG CTAACCGTGA TAGTCCTTGC AAGTAAGTCA AGGTTTTATC 120
CTGATTGGAA ATAGAAGACA TTTCCGGTTG AGAGAACAGA TTCGTTGGAA GCTTAACTTT 180
TGTTGCCTCT TAACGCCACC AAATTTTAGG GTAATTTGAT TATGAAAGAG TGAATTTTTC 240
TGGACAGAAA AGGGAGAGCT ACCAAATTGT TTTTTTCTTT TTTAAAGGAA GTTTAATGTC 300
CGTTGTATCA CAAATCAGTG TTTAAACACC AGAACTTTAG CCAAATAAA TGTCTTACAT 360
TACN 364

SEQ ID NO:107

LENGTH:358

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00120

SEQUENCE DESCRIPTION:

GATCAGCAGG GAGTTTATTT GAGGACATCA GTCACCTTTG GGGTTGCCAT GTACAATNAG 60
ATTTATAATC ATNATACTCT TCGGTGGTAG TTTCAAAAGA CACTACTAAT ACGCAGGAAG 120
CGTTCCAGCT ATTTAATGCT GGCAACTACT GTTTAATGGT CAGTTAAATC TGTGATAATG 180

GTTGGAAGTG GGTGGGGTTA TGAAATTGTA GATGTTTTTA GAAAACTTG TGAATGAAAA 240
TGAATCCAAG TGTTTCATGT GAAGATGTTG AGCCATTGCT ATCATGCATT CCTGTCTCAT 300
GGCAGAAAAT TTTGAAGATT AAAAAATAAA ATAATCAAAA TGTTTCCTCT TTNCTAAA 358

SEQ ID NO:108

LENGTH:430

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00121

SEQUENCE DESCRIPTION:

GATCTGTCTC TGGGGTCCCN CATACAGAGA AATGCATCTT GCTGAACAAG TGACCAATAA 60
TCTTAAAGAA CTTGCACAGC AAGTAACTCC AGGTGATATC GTAAGCACGT ATGGAGTTCG 120
AAAAGCAATG GGGATTTCCA TTCCTTCCCC CGTCATGGAA AACAACCTTN TGGATTTGAC 180
AGANGNNNCT GAAGAACCTA AAAAGACGGA TGTTGCTGAG TGTGGACCTG GTGGAAGTTG 240
AGGCTGCCTG GTATTTGATT ATATATTATG TACATACTTT TTCATTCTTA ACTTAGAAAT 300
GCTTTTCAGA AGATATTAATA TATTTGTAATA TTGTNTTTTT AATTAACTT TGGAACAGCG 360
AATTTGGNTG TTCCAGAGGT TGGGCCTTGT ATTAGGGAAA TAAAAGCTTG GACCTGGGGC 420
CTCGTGGAATA 430

SEQ ID NO:109

LENGTH:357

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00122

SEQUENCE DESCRIPTION:

GATCACTNGA TATTTTAGTC ATTCTGCTTC TCATCTAAAT ATTTCCATAT NCTGTATTAG 60
GAGAAAATNA CCCTCCCAGC ACCAGCCCCC CTCTCAANCC CCCAACCCAA AACCAAGCAT 120
TTTGGAATGA GTCTCCTTTA GTTTCAGAGT GTGGATTGTA TAACCCATAT ACTCTTCGAT 180
GTACTTGTTT GGTTTGGTAT TAATTNGACT GTGCATGNCA GCGGCAATCT TTTCTTTGGT 240
CAAAGTTTTT TGTTTATTTT GCTTGTCTATA TTCGATGTAC TTTAAGGGTG TCTTTTATGA 300
AGGTTTGCTA TTCTTGGCAN TTAAGNTTTT TTAGGNCTTT TTAAANGNGN ANNNAAA 357

SEQ ID NO:110

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00123

SEQUENCE DESCRIPTION:

GATCAAGGGA CGGCTGAACA GACTTCCCGC TGCTGGTGTG GGTGACATGG TGATGGCCAC 60
AGTCAAGAAA GGCAACCAG AGCTCAGAAA AAAGGTACAT CCAGCAGTGG TCATTGACA 120
ACGAAAGTCA TACCGTAGAA AAGATGGCGT GTTCTTTTAT TTTGAAGATA ATGCAGGAGT 180
CATAGTGAAC AATAAAGGCG AGATGAAAGG TTCTGCCATT ACAGGNCCAG TAGCAAAGGA 240
GTGTGCAGAC TTGTGGCCCC GGATTGCATC CAATGCTGGC AGATTGCATG ATTCTCCAGT 300
ATATTTGTAA AAANTAAAAA AAAGCTAAAC CCATTAAAAA GTATTTGTTT TGCAAA 356

SEQ ID NO:111

LENGTH:375

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00124

SEQUENCE DESCRIPTION:

```
GATCCTACCT ATCAAGCACT AAAAAGTTGA ACCATTATAC TTTATATCTG TAATGATACT 60
GATTATGAAA TGTCCCCTCA AACTCATTGC AGCAGATAAC TTTTGTGAGT CATTGACTTC 120
ATTTTATATT TAAAAAATTA TGGAATATCA TCTGTCATTA TATTCTANTT AANGTTGTGC 180
ATAATGCTTT GGAANAATGG GTCTTTTATA GGAAAAAACC TGGGATAACT GATTTCTATG 240
GCTTTCAAAG CTNAAATATN TAATATACTA AACCANCTCT AATATTGCTT CTTGTGTTTT 300
ACTGTCAGNT TAANTTACAG CTTTATGGG TGGTAACTT TTCGTNCATT TTCAAAAAAN 360
CCNGGGGNNN NNNNN 375
```

SEQ ID NO:112

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00125

SEQUENCE DESCRIPTION:

```
GATCTCTGTT TTGTTGTTGA AAATTCATTT GTATACTTTT GTTTNNATCT AGGACTTCAT 60
GTTTTTTNAA AGCACTGGCA GCCAGGAACA AAAATCAGGA GTGTGGTAGT GGATTAGTGA 120
AAGTCTCCTC AGGAAATCTG AAGTCTGTAT ATTGATTGAN ACTATCTAAN CTCATACCTG 180
TATGANTTAA GCTGTAAGGC CTGTAGCTCT GGTGTGATAC TTTTCCTTTT CAAATTATAG 240
TTTATCTNCT GTATAACTGA TTTATAAAGG TTTTGTGACA TTTNTNAATA CTCATTGTCA 300
ATTTGAGAAA AAGGACATAT GAGTTTTTNC ATTTATTAAT GNAACTNCCT TTGAAA 356
```

SEQ ID NO:113

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00127

SEQUENCE DESCRIPTION:

```
GATCACATTA TNATAAATAA ATGAAAAAAT GATTTAATCT GTAATAAACT GGTTTATTGT 60
GCAGTGACTG TAATATACTA GAGTTATAAT AAATTGTTTA CTCTGCCTCA CCAAACACAT 120
GCTAGGATAT AACCCCCAAA ATAAGTATTT AACTTTGCAT TAGGTATAAA GGAGACTGGG 180
TGCTATAATN AGATTATTTT GAGGCAGACA GAGAGCTGTT ATCCTAACTG ATTTAGTATG 240
TTCTGTAATT GAGAAAATGT TCACCAAATN ATACTTTTTA GTGATTTACA TGTACATTTT 300
ATAGGGGACA TGTTCGTGTG ATAGCGAATA AATAACTTTT ATAGTATCAC N 351
```

SEQ ID NO:114

LENGTH:352

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00128

SEQUENCE DESCRIPTION:

GATCTTGAAC CTGGTGCTCC ATCCATGGNA GCNNAAGCC TTTGCATCCC CTTCAAACCA 60
CTCTGTGAAC TGCAGCCTGG AGCCAAATNT GTCTGTGGCA AGAACCCCTGC CAAGTACTAC 120
ACCTTATTTG GTCGCAGCTA CTGNNGGATG NACGAAAGCC CCCTCTTCAA CTCCTCTCAC 180
TTTTTAAAGC ATTGATATTA GTATCTTCTC AGATACAGAC CGTTTTATGA TTTTTTAAAA 240
AGTAAAAGTT CTAAATGAA GTCACACAGG ACAATTATTC TTATGCCTAA GTTAACAGTG 300
GATAAAAGAC TTTTCTGTAA ACAACTCCAG TAATAAATAT CATGNACTNA AA 352

SEQ ID NO:115

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00129

SEQUENCE DESCRIPTION:

GATCAAGTCG TGCTCCTGGC AGGCGCGCCC CTGGAGGATG AGGCCACTCT GGGCCAGTGC 60
GNGGTGGAGG CCCTGACTAC CCTGGAAGTA GCAGGCCGCA TGCTTGGAGG TAAAGTCCAT 120
GGTTCCTTGG CCCGTGCTGG AAAAGTGAGA GGTGAGNNTN NTNAGGTGGC CAAACAGGAG 180
AAGAAGAAGA AGAAGACAGG TCGGGCTAAG CGGCGGATGC AGTACAACCG GCGNTTGTGC 240
AACGTTGTGC CCACCTTTGG CAAGAAGAAG GGCCCCAATG CCAACTCTTA AGTCTTTTGT 300
AATTCTGGGC TTTCTTCTAA TAAAAAGCC ACTTNAGTTC AAGTCAAA 348

SEQ ID NO:116

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00130

SEQUENCE DESCRIPTION:

GATCTCCCAC AATTAATTTA TCTTTTGACA AAGGGGATAA AGAGTTTCAG TTTAGCTCCT 60
TTTGATTGTA TATNATTTTT TCCTTTTTNA TTGTGAAAAG AGGTAGGTTT TATTTGTGGA 120
GAGAGAGTTG AAGATTAGGG AACCAGTGAT TTAAATTATG CTACTTTTCC TTCTAAGAGA 180
TAAATTGATA TATCATTCAG TGTCATGAAA AACATGAATG TNGTACAATT TTCTNCCTCA 240
AAAAACTTTT TAAATGTAAG TATCCTTATT TNNTTTTAA AAGAGCACAA TGTAGGTGTA 300
TTTGGGTATT TCCAAGAAAA GANTAAANCC ATTAATGCAG TAAA 344

SEQ ID NO:117

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00131

SEQUENCE DESCRIPTION:

GATCTGGGCT CCAAGCCAGG AAAGGTGAAC AGAAACCACA AGTNTCCAGC CCTCGGTGCT 60
GGAGTGGACG TTAATTGTNA GCCACCAGAC TGTCCCGGCA CCTACAGAGA ATGTTTCACA 120
GTTCTGGCAT TTAAATCCTT TGATAGTGGA TTGTGCTGCT GTTAGCCTTA GTTTCAGTGC 180
TTTACAAGTC TCGCTTATNA TCTCATTGGT ATTTAGGTAT ACAAACAGT TGATTATTCA 240
CCACGCCAAT ATCTGGGTCT CTGTATCTCA TGTAGAACAT AAGAAAATGG GAACTAATAG 300

GGAAATTTAT TTATAGCATG AAAATAAACC TGGTGGCTGG AGTCTGCTAA A

351

SEQ ID NO:118

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00132

SEQUENCE DESCRIPTION:

GATCCTAAGG CAATAAAAGA ATAAGGAGAT TTGGAAAACC ATTGTCTGTA ATCTCTGAAG 60
AAAAGTGGAC ATTAGGGGAG TCAGTTGAAA AGCAAAGCTA TCACCATTTT CTAAAGAGGA 120
AAAAGGTGAA CCTCACAAAC TATAGACCAA AAAAATAGGA CATCGAGAGA AAGAATATGA 180
AGCTAGCATA GGTTCACAAA GAATGAGTCA AATCAAACAA CATGCATTTT TTATTTATAA 240
AGCATGACTT GTTCATTGTC AATTCATGTT AGCTTAATCA TTAGGCATTA ATGCCATCAC 300
TGCAATGCAT ATGTCAGCAA TAAATAATCA AGGCCCGGCT TCN 343

SEQ ID NO:119

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00133

SEQUENCE DESCRIPTION:

GATCTTCCCA CAACACCACA GGACTGCAGG GTGCACAACCT CCCCTGCCAA GGAAAACCAT 60
GCAGTCCTCC CCTCCCTGGT CTCCTGCTTC AGCTCTGTAC AACGAGGGCA AAGATGCTAA 120
ATCTTGCTTT GCATTCAAGT AAGTGTCAAG TGATTAAGTG TGTATTTGTA CCCTAGATGA 180
TATGAACCAG CAGTCTTGTT TTGGCATCAT CCTCATCATG TTGTATTCCA GCTTCTTAAG 240
TGGAAGGAAA AGAGTGCTGA GAAATGGCTC TGTATAATCT ATGGCTATCC GAATTCTCTG 300
AAAAANTANT AAAAGTCCCC TCTNTTATAT GAGCCTGTAC AGAAA 345

SEQ ID NO:120

LENGTH:358

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00134

SEQUENCE DESCRIPTION:

GATCCCCCT CTCGAGGGCG ATGAGGATGC GTCTCGCATG GAAGAAGTCG ATTAGGTTAG 60
GAGTTCATAG TTGGAAAACCT TGTGCCCTTG TATAGTGTCC CCATGGGCTC CCACTGCAGC 120
CTCGAGTGCC CCTGTCCCAC CTGGCTCCCC CTGCTGGTGT CTAGTGT TTNCCCTCTC 180
CTGTCTTGT GTTGAAGGCA GTAAACTAAG GGTGTCAAGC CCCATTCCCT CTCTACTCTT 240
GACAGCAGGA TTGGNTGTTG TGTATTGTGG TTTATTTGAA TTNCTTCAT TTTGTTCTGA 300
AATTAAGT ATGCAANAAT AAAAGAATTA TGCCNTTTT TNATAAANA NNAANAAA 358

SEQ ID NO:121

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00135

SEQUENCE DESCRIPTION:

GATCTTCATG CCCTGGGTTC TGCCCGNACG GACCCNCATC TCTGTGACTT CCTGGAGACT 60
CACTTCCTAG ATGAGGAAGT GAAGCTTNTC AAGAAGATGG GTGACCACCT GACCAACCTC 120
CACAGGCTGG GTGGCCCGGA GCTGGGCTGG GCGAGTATCT CTTGAAAGG CTCACTCTCA 180
AGCACGACTA AGAGCCTTCT GAGCCCANCG ACTTCTGAAG GGCCCNNTGC AAAGTAATAG 240
GGCTTCTGNC TAAGGCTCTG CCTNCAGNCA ATAGGNANGC TTTTAAACN ATCCTAACAN 300
GGNTTGGGAC CAAATGGNAA TAAAGNTTGT TNGATGCAGG AGATATGAAA 350

SEQ ID NO:122

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00136

SEQUENCE DESCRIPTION:

GATCTGAGCT GAATTGGAAG ACTATTAATA AGTTATGTTT GGAAGTTTAA ACTTCAATGA 60
AGTAATTATT TGCTGTGAAA GAAACAAACA TTGAATTACT AAACAAAGAT GGTGCAATAT 120
CTTTGTTTTT TTTTATGAG GCTCCTGAGA ATCAACCCAA CTGAAGCATT TCAATTCACT 180
TGAATGAGAA ACGTGTTTAG TATCAAAAGA GCCCAAGAAG AACTGGGTGT GAAAGGTACA 240
NTCTCAGAGG TTGGTCAATT ACCGTGGCAC ANTTTCTGGT CACTTGTAC AATGTAGATT 300
TGAAGTACAG TGGTGAAAAC ATTAAATGTG ACATTGTN 338

SEQ ID NO:123

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00137

SEQUENCE DESCRIPTION:

GATCAAAAAA CATGAGGNAG AAGAAGCCAA AGCTGAGCGT GAGAAGAAGA NAAAAAGAAC 60
AGAAAAGAAA GGATAAATAG AATCAGAGAT TTTATTACTC ATTTGGGGCA CCATTTCAGT 120
GTAAAAGCAG TCCTACTCTT CCACACTAGG AAGGCTTTAC TTTTNAAC TGGTGCAAGT 180
GGAAAATAGG ACATTACATA CTGAATTGGG TCCTGTGCAT TTCTGTCAA TTGAATACTT 240
TATTGTAACG ATGATGGTTA CCCTTCATGG ACGTCTTAAT CTTCCACACA CATCCCTTTT 300
TTTTGGAATA AAATTGGAA AATGGAAATN AAGGAAA 337

SEQ ID NO:124

LENGTH:336

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00138

SEQUENCE DESCRIPTION:

GATCACCATT TGAGATACGC GGCTTAACGC ACATGTGAGT GTAGCTTGCT ACATGAAAAAT 60
GCTAGGCTCT AGGGCATGTA AAACATGAAT ACAGAATACT AGATTGTTCT AAGTAATGTC 120
ATTTGCGTTT GTGANTTTGA TTTTCCCTT CATTTTCATGT CATATTGNAA ATGCAACAA 180
ACTGCTCTCA AGAACACCCA GAAGCTATCT GTGTTACCAG ATGTGTTGTG NAACTCTAC 240

TNTTTTTCAT AGGTGCTACC TGGNAATATA TGTCCATTGT AGTGGTGGNG NGGGNCTNGA 300
CTCTNTCAGG CTCTTNTCTN GCCAGNTGNC TNCNGN 336

SEQ ID NO:125

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00139

SEQUENCE DESCRIPTION:

GATCTGGGCT GCAGGAGCTG GGGCCACCCA CAGCCCCCCT ACCGACCTGG TGTGGAAGGC 60
ACAGAACACC TGGGGCTGCG GGAACAGCCT GCGTACGGCT CTCATCAACT CCACTGGGGA 120
AGAAGTGGCC ATGCGCAAGT TGGTGCGCTC AGTGACTGTG GTTGAGGACG ACGAGGATGA 180
GGATGGAGAT GACCTGCTCC ATCACCACCA CGTGAGTGTA AGCCGCCGTT GAGGCCGAGC 240
CTGCACTGGG GCCACCNAGC CAGGCCTGGG GGNAGCNTTT CCCNAGNNTN CNNGTGCCAA 300
AANTTTTTTN ATTAAAAGAT TGTTTTGGGA ACTTTAAA 338

SEQ ID NO:126

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00140

SEQUENCE DESCRIPTION:

GATCAAGCAG ATTCCACGAA TCCTNCGGAC CAGGTTTAAA TANGGCAGGA AAGTTCCTT 60
CCCTGCTCAC ACACAACGAA AACATGGTGG CCAAAGTGGA TGAGGTGAAG TCCACAATCA 120
AGTTCCAAAT NAAGAAGGTG TTATGTCTGG CTGTAGCTGT TGGTCACGTG AAGATGNCAG 180
ACGATGAGCT TGTGTATAAC ATTCACTGG CTGTCAACTT CTTGGTGTCA TTGCTCAAGG 240
AAANCTGGCA GANTGTCCGG GCCTTATATA TCANNNGCA CCATGGGCAA NGCCCCAGCG 300
GCTTATATTT AAGGCACATT TTNNATAAAT TCTATTNACC CGGTAAA 347

SEQ ID NO:127

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00141

SEQUENCE DESCRIPTION:

GATCAGTTGT AATCAGAATA CAACTGNGTC TTGTAGTTGT AATATGTTCT ATCTTAACCA 60
CCACTTTCGT ACCAGGAACC TGCTCAGGTT TGTTCTCTAG AAGCTCCAA CATAGATAGT 120
CTACATTTCA GACTACTAAG TTATTAACAA ACCCTTTGGG CCCATGTTCA CTTTAGGGTT 180
GAGCATAGTG TGAGGAGATG TAAATTAAAT TATAATCCTA TATGTGTGTG TAATAAATAT 240
TAAAGTGTAT AAATTAAACA GCAGATTCTA AGTATCCAAC AAGAGTCAA TAAATGATAC 300
AAAGTCACCA AATAAATAAT ATTTAATCTC ATCTN 335

SEQ ID NO:128

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00142

SEQUENCE DESCRIPTION:

GATCTAGTTA AAGTTATTCA ACAGGAGTCT TACACATATA AAGACCCAAT TACAGAATTT 60
GTTGAATGTT TATATGTTAA CTTTGACTTT GATGGGGCTC AGAAAAAGCT GAGGGAATGT 120
GAATCAGTGC TTGTGAATGA CTTCTTCTTG GTGGCTTGTC TTGAGGNNNN CATTGAAAAT 180
GCCCCTCTCT TCATATTTGA GACTTTCTGT CGCATCCACC AGTGTATCAG CATTAAACATG 240
TTGGCAGATA AATTGAACAT GACTCCAGAA GAAGCTGAAA GGTGGATTGT AAATTTGATT 300
AGAAATGCAA GACTGGATGC CAAGATTGAT TCTAAATTNA GGTTCATGTGG TTATGN 356

SEQ ID NO:129

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00143

SEQUENCE DESCRIPTION:

GATCAAAGNA CTCTGACTGC AGAACTGCCG CTCTCAGTGG ACAGGGCATC TNTNACCCTG 60
AGACCTGTGG CAGACACGTC TTGTTTCAT TTNATTTTG TTAAGAGTGC AGTATTGCAG 120
AGTCTAGAGG AATTTNNTT TCCTTGATTA ACATGCTTTT CCTGGTTGTN ACATCCAGGG 180
CATGGCAGTG GCCTCAGCCT TAAACTTTTG TNCCTACTCC CACCCTCAGC GAACTGGGCA 240
GCACGGGGAG GGTGTTGGCTA CCCNTGCCCA TCCNTGAGCC AGGTACCACC ATTGTAAGGA 300
AACACTTNCA GAANTTCAGC TGGTTCCTCC AAA 333

SEQ ID NO:130

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00144

SEQUENCE DESCRIPTION:

GATCTCTGTA GATATTCTGT TTTATTTTGG TCATCTTTAG AAGTTATCAG GAATGTGTTT 60
AAAACAAGAA GAGAACTTTT CTAAGGAATG ATACATAGAA AAGATTTTAT TTTAAAATGA 120
GTTGTAAAGC TTGTTTTTCT TTGTTGCTGC AANTATCTGC CCAAGTTAAT GCAAATGGAC 180
ACATTTTTTA TGTCAGAAAA ACACACACAC ACACACACAC ACACACACAC ACACACNCGC 240
GNNACACAGN GANAAAAAGTG CTTGNGCTTN NNCTCNCNTC CCCTTGNGT CTGTTGTGTG 300
CGCAGCCTGT TTATNTCTCT NNTATTGTGT CN 332

SEQ ID NO:131

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00145

SEQUENCE DESCRIPTION:

GATCTGTGAC CTTACCCCA AACCTGTNCT CTCTGAAACA TGTGCTGTGT CCACTCAGGG 60
TTAAATGGAT TAAGGGCGGT GCAAGATGTG CTTTGTTAAA CAGATGCTTG AAGGCAGCAT 120
GCTCCTTAAG AGTCATCACC ACTCCCTAAT CTCAAGTATC CAGGGAGACA AACACTGCGG 180

AAGGCCGCAG GGTCTCTGC CTAGGAAAAC CAGAGACCTT TGTTCACTTG TTTCTTTGTT 240
CACTTGTTTA TCTGCTGACC TTCCCTCCAC TATTGTCCTA TGACCCTGCC AAATCCCCNT 300
NTGATGAAAA ACACCCAAGN ATANTCANTA AA 332

SEQ ID NO:132

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00146

SEQUENCE DESCRIPTION:

GATCGAGGTT GTTTGCAACG ACCGTCTGGG GAAGAAGGTC CGCNTTAAAT GCAACACGGA 60
TGATACCATC GGGGACCTTA AGAAGCTGAT TGCAGCCCAA ACTGGTACCC GTTGGAACAA 120
GATTGTCCTG AAGAAGTGGT ACACGATTTT NAAGGACCAC GTGTCTCTGG GGGACTATGA 180
AATCCACGAT GGGATGAACC TGGAGCTTTA TTATCAATAG ATGAGAATCC TCATCTTNCT 240
GCCCCGCTNT CCNNTNCCA TCCTCATCCC CCACANTNGG GATAGATGCT TNGTTTGTA 300
AAACTCANCN NAATAAAGAC TTAGATGTTG AAA 333

SEQ ID NO:133

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00147

SEQUENCE DESCRIPTION:

GATCAGGTCT GTAAATGTGT ACTAAAAAAA TNAGAGTTTA TTTATAAACA AAATAGTTTA 60
TTTAAAGAGA AGGTCTCTTC CTTATTGATA TCATGGTATG CATTAATTCC ATTTGTTACT 120
ATTGTGCACA AAAGCCCTGT TCACAGGGGA ATGGTGTAAT CATTATACT GTTTTGTTCA 180
CTGTATTTAG TAGACATAAC TGTTGAATAG TTAGTGAATC ATGATGTAAA GAATATGTGA 240
CCATCTTCAG GTATGGGATT TCTGAACGTT TCAAAATTCA ATCAATGAGC ACTGTCAACA 300
CCCACAGNG AGAATAAAAT TACCTGTGCN 330

SEQ ID NO:134

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00148

SEQUENCE DESCRIPTION:

GATCGAACCA CTGCACTCCA GCCTNGGTGA CAGAGAGAGA CACTGCCTTN GAAAAAAAAA 60
GAATCTCACT CACTATCTAG AGAGGATTGT CAGANTATTC ACGATTCAAG TCTTGAAACT 120
TTGATTATGC AAAAGAGGTA TATATAAATA TTTCATTATG ATTCAGGTTT TAGGCTTTGC 180
AGCTTCTATA AGGTGTTCTC AGGTGGCCCT TGACNNCTN AAAGCATCCT TTAGGAAATN 240
CTTTAAGGNN GGCTTTNTAT AAGGAATAGG NGGNTGTTGA ATTTTACAG GGGGGTTTGG 300
GTCATTNAGN CCCCATTNT GTANGN 326

SEQ ID NO:135

LENGTH:325

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00149

SEQUENCE DESCRIPTION:

GATCATGANC TCTGAAAAA AGAGAAACCT TATCTTTNCT TTGTGGTTCC TTAAACACA 60
CTCACACACA CTTGGTCAGA GATGCTGTGC TTCTTGGAAG CAAGGNCTCA AAGGCAAGGT 120
GCACGCAGAG GGACGTTTGA GTCTGGGATG AAGCATGTNC GTATTATTTA TATGATGGAA 180
TTTCACGTTT TTATGTNAAG CNTGACAACA CCAGGCAGGT ATGAGAGGAA AGCAAGGCC 240
GTCCATNGCT GTCCGTACNC TTACGGNTTG CTTGTNGGAG NCATTNNGGT ATTGTTTGT 300
GTAANANCCA AAANGGGCTT TGGNN 325

SEQ ID NO:136

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00150

SEQUENCE DESCRIPTION:

GATCNACGCT GTGCCCTGGC AGGGCACAAT GACCTTGTCG AAATCCACCT GTCAGGACGC 60
CTAGGGGTCT GTACGGGGCT GGCCTGTGCC TATNACCTCT NATGCACACC TCCCACCCC 120
TGTATTCCCA CCCCTGGACT GGTGGCCCTT GCCTTGGGGA AGGTCTCCC ATGTGCCTGC 180
ACCAGGAGAC AGACAGAGAA GGCAGCAGGC GGCCTTTGTT GCTCAGCAAG GGGCTCTGCC 240
CTCCCTCCTT CCTTCTTGCT TCTNATAGCC CCGGTGTGCG GTGCATACAC CCNACCTCC 300
TGCAATAAAA TAGTAGCATC GGCAAA 326

SEQ ID NO:137

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00151

SEQUENCE DESCRIPTION:

GATCAAGNNG CCCTGGAGGC GGTGGGCGGC ACCGTGGTTC TGGAGTAGCC TCCAGCTCGG 60
AGGACTTGTN TNCAGGGGTC CTGGGCCCCG GNCAAGGTCC CGCCCTCCCG TGGTCACTGG 120
CTCCGCCCCA GCACCAGGCG CCCAGTGGAG CCGTTTGGAA GAATTGCCTG CNGCACGAGC 180
GGGGCCGGAC AGGCGCACAG ACCTACTGTN GCGGGAGGAA GGGGCGGCTG CTGCCTGGTG 240
ACGGCACCCG GANGCCCACC AGGACGCGCC ACCGGTNAAT GTNNCTCTNG TGGCTGCTGA 300
GAAAAATACA CTGTGCAAGT CAAA 324

SEQ ID NO:138

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00152

SEQUENCE DESCRIPTION:

GATCTCAGCT TTTGGTTTCC CATGATACCA TCTCTAGGGG TAGCAGCTGG CTATAATAAC 60
TAATGTCTGG ATTATCCTAA CTCTTCTGTT TGTNCTTTCA GGTATTTAAC AATGTTGTGA 120

CTAATTGGCT TCCATTATTT CCCTAGAGTA GGTTCCTGTTA TNACCCTGGA ATATGTTTGT 180
AATAGAGTGG GCTATTACAA TCATCTAGGA TAAAGATAAT CGTGGCTTGG AATAAGGGTG 240
GTAGCAATGG AAGTGATGAG AAGTCATTAG ATGCAGAATA TATTTTATAG ATGGANTGTG 300
ATAAANTAAA AAATAAACTG GGN 323

SEQ ID NO:139

LENGTH:322

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00153

SEQUENCE DESCRIPTION:

GATCCATTCT CGGAATTCAC AGAATTTTNA TAACATCTNA CTCTCAGGGG GCATGAAGTG 60
CATAATCTTC CCTAGATTAC AAAAAACATA TAGATGACGG GTTTCCTAT NAACTTCAG 120
TACTACAAGA AACATAAAAT ATTTAAATAT ATGANATTTA AATATATTTA AAATTATTAA 180
AGTAATATAA ACATTTTNA GTGACTGTGT TATGTTTTTC TGGTTATTTT GTTTTCTACT 240
AGTATATTTT TCTGTAAAAA TTGTAAACT ATATCAGCAA TTTCTAATGC CAANAANGTA 300
AAACCTNGTG TGTATAAATG CN 322

SEQ ID NO:140

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00154

SEQUENCE DESCRIPTION:

GATCAGAGGC ACAAGTNCAG AGGCTGTGGT CATGCGGAAC ACTCTGTTAT TTAAGATGGC 60
TATCCAGATA ATCCTGAACA CTGTGTATTT ATTTAATTTA GACTACCAGC AAAGATTAAA 120
GCATGAAATG TAAAACATCT GATAAACTT ACAGCCCCCT ACACCAAGAG TGTATCTGTG 180
AAAGAGCTCC TACACTTTGA AAACCTAAGA NTCCCTNTC ATGAAGTTTG CCTGTNCTAG 240
AATTGTAAGA TTGTTAATT CCNTCAATCT CTAGTGACAA CACTTAATTT CTTNCTAAT 300
ANAAAAAGCC TNGTNGGTGN AAA 323

SEQ ID NO:141

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00155

SEQUENCE DESCRIPTION:

GATCAAGTTT AAATGACTGT GCTGCCCTT TCACATCAAA GAACTACTGA CAACGAAGGC 60
CGCGCCTGCC TTTCCCATCT GTCTATCTAT CTGGCTGGCA GGAAGGAAA GAACTTGCAT 120
GTTGGTGAAG GAAGAAGTGG GGTGGAAGAA GTGGNGTGGG ACGACAGTGA AATCTAGAGT 180
AAANCCAAGC TGGCCAAGG TGTCTGCAG GCTGTAATGC AGNTTAATCA GAGTGCCATT 240
TTTTTTTTTG GGTCAAANG NTTTTAATT TNTNGGAAT NGNCCANTT TTTNAATT 300
NGCAANTAAA AANGTTTAAA ANCTTAAA 328

SEQ ID NO:142

LENGTH:369

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00156

SEQUENCE DESCRIPTION:

GATCTCTGGC AGTGGAGGAA GTCTCTTTAA GAAAATAGTT TAAACAATTT GTTAAAAAAT 60
TTNCCGTCTT ATTTCAATTC TGTAACAGTT GATATCTGGC TGTCTTTTAT ATAATGCAGA 120
GTGAGAACTT TCCCTACCGT GTTTGATAAA TGTNGTCCAG GTTCTATTGC CAAGAATGTG 180
TTGTCCAAAA TGCCTGTTTA GTTTTAAAG ATGGAAGTCC ACCCTTTGCT TGGTTTTAAG 240
TATGTATGGA ATGTTATGAT AGGACATAGT AGTAGCGGTG GTCAGACATG GAAATGGTGG 300
GGAGACAAAA TTATACATGT GAAATAAACC TCAGTATNTT AATAAAGTAG CACGGNTTCT 360
ATTTGNAAA 369

SEQ ID NO:143

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00157

SEQUENCE DESCRIPTION:

GATCATGAAG GAACACATAG CACCAAGAGA GGCCATGCTA AATCTCGCCC TGTCAGANNN 60
NTCCACACTT CTCCTTTGGG GAAGNCTTCC CTGTCCCCCT AGACTAAGTT AAATATTTCT 120
GCACAGTGTT CCCATGGCCC CTTGCATTTT CTTCTTAACT CTCTGTTACA CGTCATTGAA 180
ACTACACTTT TTTGGTCTGT TTTTGTGCTA GACTGTAAGT TCCTTGGGGA CAGGGCCTTT 240
GTCTGTCTCA TCTCTGTATT CCCAAATGNC TAACAGTACA GAGCCATGAC TCAATAAATA 300
CATGTAAAAA TGGGATGAAT GAAA 324

SEQ ID NO:144

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00158

SEQUENCE DESCRIPTION:

GATCATTGAA CGAGACAGAA AGCGACCATC CTGGTTTACC CAGAATTGAC ACCAAAGATG 60
TTAAAAGGAT AACTTCACAG TAAATCATTT CTCCTGAAAT AGAGGAAGAT TCTTTACGTT 120
GTTGTNCTTG TTTTAAATC ATCAGTATAG TTAAACACAT TCTTTCTAAG CAGTTTTGTG 180
TGGGATAATT TGAAGAATAT ATTATGAGTA ANCTCCGAAA ATTTTGTTTA TCCAAAGGCT 240
CANTGGATTA TGTTTCTATT ATNTACAAGG TTTTAAGTAA ACATANNNTT TCCNGNCCNG 300
AGNTTANAGN NATTTN 316

SEQ ID NO:145

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00159

SEQUENCE DESCRIPTION:

00333

GATCTTCATT TTATTGCATT AGTTCATGTA GATGGGCATC TCTATGAATT AGATGGGCGG 60
 AAGCATTTC AATNAACCAT GGTGAAACTA GTGATGAAAC TTTATNAGAG GATGCCATAG 120
 AAGTTTGCAA GAAGTTTATG GAGCGCGACC CTGATGAACT AAGATTTAAT GCGATTGCTC 180
 TTTCTGCAGC ATAGCTTGTC AATAATGGAA ACACCAAAAA CTGTATTATT TGCAACTAAA 240
 TTTTCTCTGC CATACTAA CTCAAAAATT TTGATATTTT CATTAAGTTG ATGATTAAAC 300
 TTTATGTGAG TTAANCTTTG AAA 323

SEQ ID NO:146

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00160

SEQUENCE DESCRIPTION:

GATCTTACTG CTTGTNACTT GAATCCCGTG ATTGTNATAC ATCTCTGGTA TAAGCAACAT 60
 TTGATTTTGG AAGTGTGTAG ACCATCTCTT CATATTTTCA AGATGTAATT TTACATTNCT 120
 GCATTTTAA AACAGTTTGG CCATAATCCT AGATGCACGC TTCTAATTCA TGTACCTGCA 180
 CATGTGACCT TTGTGAACAG NAATTTGCAT GNATAATTNG TGTTTACTTG TAACTNTCTG 240
 GTTATATACT GCTTATATCT GTGGATTCAA GTTACTGAAG TGGANTNCCA ATAGAAAGNA 300
 ANCCCTAGGC CATGTAAA 319

SEQ ID NO:147

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00161

SEQUENCE DESCRIPTION:

GATCTCTGAT TACCAGCCTG ACATCAACAA ATCCCCTCAG TTACAACGTA TAGGTAAAC 60
 AAAGCTTTTA AAAGCTCATG TGGTATGACC TCAAGGTTGC TAACCTGGTC ACTCATGGTA 120
 ATNAGAACT CTGATTGGCA GCTTTGTATT TCTTGACTAA AAACCTAAAT AACTGATTA 180
 GGTTTTAGGC GTTCTTTCAA AGAGGTTCTT GAGAAGATTG AGAACTATCC TATTTGGTGC 240
 TTAGTGAAAA GATTTTGAAT TACTGTACGT ACCAGTTGTT GCCATTTCTT TATTAAATTC 300
 AGAAGTTTTT TTGCCN 316

SEQ ID NO:148

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00162

SEQUENCE DESCRIPTION:

GATCTTGGAC AGCNTGGGTA TCGAGGCGGA CGACGACCGG CTCAACAAGG TTATCAGTGA 60
 GCTGAATGGA AAAACATTG AAGACGTCAT TGCCCAGGGT ATTGGCAAGC TTGCCAGTGT 120
 ACCTGCTGGT GGGGCTGTAG CCGTCTCTNC TGCCCCAGGC TCTGCAGCCC CTGCTGCTGG 180
 TTCTGCCCT GCTGCAGCAG AGGAGAAGAA AGATGAGAAG AAGTAGGAGT CTNAAGAGTC 240
 AGNTGNTGNC ATGGGATTTG GCCTTTTTTG GTTAAATTCC TGNTNCNCTG CAAATAAAGG 300
 CTTTTTTTAC AGANGTAAA 319

SEQ ID NO:149

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00163

SEQUENCE DESCRIPTION:

GATCAATGCC CTCATTAAAG CAGCCGGTGT AAATATTGAG CCTTTTGGC CTGGCTTGT 60
TGCANAGGCC CTGGNCAACG TCAACATTGG GAGCCTCATC TGCAATGTAG GGGCCGGTGG 120
ACCTGCTCCA GCAGCTGGTG CTGCACCAGC AGGAGGTCCT GCCCCCTCCA CTGCTGCTGC 180
TCCAGCTGAG GAGAAGAAAG TGGAAGCAAA GAAAGAAGAA TCCGAGGAGT CTGATGATGA 240
CATGGGCTTT GGNGTGTGTTG ACTAAACCT CTTTATAAC ATNGTNCANT AAAAAGGCTG 300
GAGCTTTAAT AAA 313

SEQ ID NO:150

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00164

SEQUENCE DESCRIPTION:

GATCCAGAAT CCACGGGGTC TGGAGCATAA GGTTTATCTC AAGTNTCAAT TGANCTGCCT 60
CCTCTGTNA GGCAGGGACA ACTGGGAGGA TGAGCCCCAA GAGCCTCAAG AACCCAACAA 120
GGTGCCCCTA GAAGACACAG AGACAGATGA NCTTTGGGCA TCCTTGGAGG CAGCTGCCAA 180
GCGGANAGCT CTCGGGTTTG GAGCAGCCCC AAGGAGCTCT CCAAACGAGA CGGAGAAAGA 240
AGAAGCGGCC TGGGTCCACC AGCCCCTGAC GCCCTGTNN CCACTTTGTA AATAAACTTG 300
CTGAACACCC AAA 313

SEQ ID NO:151

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00165

SEQUENCE DESCRIPTION:

GATCATCAAC AAAGAAAGTC TGAGAAATTG TCCCGGAATA AAGGGGCCTA AGGAGACATA 60
ACATCTAAAT GTAATGTAGT ATCCTGGATG GACTCCTGCA ACAGAAAAAG AACTTTAAGT 120
AAAAATTAAG GGAATATTAA TAAAGTATGC ATTTTGGTTA ATAATGTATC AATATTGGTT 180
TATTAGTTGT GACAAATGTA CCAGAGGAAT GTAAAATGTC AACAATAAAG GAATTGGATG 240
TGGGGTCCAT GAGATGCTGT ACTATTTTGT CACTTTTCTT AAATCTAAAC TCTTATAAAT 300
TTAANCATAA AGN 313

SEQ ID NO:152

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00166

SEQUENCE DESCRIPTION:

GATCTGGCCA TCTACGAGCC AAAGACTTTN AAATCTTTGG CTGCCTTGGC CAGTAGGAGG 60
 CGACACGAAG GATTTNCTGC TGCCTTGGGG GATGGGAAGN AACCTGAAGG CATTNTNCC 120
 AGAGTGGTGC AGTACCACTN AGGACTGTTG CTGTATTGAT TAGGAAAAGA GACAGAGTAA 180
 TTTNCAGTTT GTTTGATTTA TACTTTTGT TATCTACAAC CCAATAACAG ACATGAGGGA 240
 TGGCCCTGTC TCTCTGGGAC AGAGCCTCAA AGATGATGTC CATGTTTTGT GTGAATGAAA 300
 CTCAAACACT CTTCAA 317

SEQ ID NO:153

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00167

SEQUENCE DESCRIPTION:

GATCCCCTGC CCCCTGTCCC CTGCCTCTTT TCCCAATTCC CTTCTTATG CTGGACTTTT 60
 AAAGCTTAAA AAAAATCCGA TTGAATATAA ATGCCTAATT TCATTCTTTG TGAAATGGTT 120
 GCTTCCTCCT GATTCCCTAA TTGTGCTGTG TTCGTGTCTT GCACTGGAAT TCAACATTCC 180
 CTTCTCCTTT TGTACTGTGT TGTGCTTGCT GTCTCTCCCG GACANCCTTA AAGACTGTCT 240
 TTTTAGCAAA AAATTTCAGT AAAGTGT TTTTAAAG GTGAGAACTA 300
 ATTATTGTCN 310

SEQ ID NO:154

LENGTH:309

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00168

SEQUENCE DESCRIPTION:

GATCACCACG GTTTTCAGCC ATGCTCAGAC AGTGGTTCTT TGTGTAGGTT GTTCAACAGT 60
 GTTGTGCCAG CCTACAGGAG GAAAGGCCAG ACTCAGAGAA GGGTGTTTAT TTAGAAGAAA 120
 GCAACACTAA TGATTCAAAC AGCTTCCTGA ATTTTAATTT TGTGTTGTCT CACAGAAAGC 180
 CTTATCATAA ATTCCATAAT TCTAATTAAT TTACCAAGAT AATGTAATTA CATTGGTTT 240
 TGTAAGGTAT ACAGCAGTAA TCTCCTATTT TGGTGTGAGT TTTTCAATAA AGTTTGTATT 300
 ATGGGCAAA 309

SEQ ID NO:155

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00169

SEQUENCE DESCRIPTION:

GATCACATAC AGGGGAAAAG CCCTATGNAA TGTAACACAT GCAGGAAAAC CTTCTCTCAA 60
 AAGTCAAATC TCATTGTACA TCAGAGAACA CACATAGGAG AAAANCCTTA TGANTGATTT 120
 GGATATTAGA AATTNCCAGC CACAAGTCAG CCTCCATAAT GCNTCAGAGT CTTCACTG 180
 TGGAGANGGG CCTGTTGACA TCCTGATTGT TCANTAATA TCCACAACCT CGCCTTATGT 240
 TACTCCANNG TAACAGTAGG GGTAAANCC ATAGNCTACA ACACCTNTNG GNTGGCTTTT 300

NTTAGGN

307

SEQ ID NO:156

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00170

SEQUENCE DESCRIPTION:

GATCCACCAA CTTTGGCCTC CCAAAGTGTT CAGATTACAG GTGTGAGCTG CTACCATGCC 60
TAGCCCCAGC TTCTACTGCT TGANGGCTCT CTTTGGCATC TCCACACATC ATCCTTAGCA 120
GCCCAGACTG CATTTCTGTA GCAGCCTCTT CCCTGGTCTC TTCTTTCAGT CTCTCTGCCT 180
CTAATCCAGT GGCTTTAAGA ATTTTTTGGC TGTGACTTCC AGTAAGAAAT ACAATTTACA 240
TTGTGACCTA GTAAATATGT GTGTAAGATT TATTAAGTGA AATAAAAATG TTATGATTTA 300
ATTTTNN 307

SEQ ID NO:157

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00171

SEQUENCE DESCRIPTION:

GATCTGTCCC TGTGGTGGTG TCTAAGAATC GGACACCTTG GTTTTGTGT TAGATTGAGC 60
TGGGCAGCTG CAATCAGCTA CTTAATATGC AAATTAGGCA CGTCCCCTCT GTGGGTCCTT 120
GTTGGTGGCT AATGAAGTGA GGGGAGGGAG GGATGTCACC CCAAAAGTAG GCCCTCCCAT 180
TGGCTTTGGC CAGGCCAGAC ACTTCACATC GTTACATGG TTCTGTGTAA TTTTAAAGTT 240
TATGTGTATA AAGCGACGGT TTTCTGTGAA CTGTATATTT TGTAAATAAA TATATTGCTA 300
CTTTGN 306

SEQ ID NO:158

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00172

SEQUENCE DESCRIPTION:

GATCTTCAGA TAAATTCTGC CATTTTNATT TCACTTCCTG AAAGTNAGGG TCGGCTTGTN 60
AAAAGTTGTT AAACAACATG CTAAATGTGA AATGTCAACC CTCCTCTAA ACTTTCCCTG 120
TTCAGAGCAT CAGATGAAGA CTTCAATGGG TTTTATAGTG GCTTCTGAT TTTNGGTAGT 180
CCATTGAAGA AGGGAGTTTG AAAGTTGTTG TATACTGTGA ACGATTGTCT GCCCATGTCC 240
TGCCTGAAAT ACCATGATTG TNTATGGAAA GTATCTTTAA TAAAGCTGGA TACAGTTTGG 300
CTTGGAGAAA 310

SEQ ID NO:159

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

00337

CLONE:HUMGS00173

SEQUENCE DESCRIPTION:

GATCTACTTT GGAAAAACAA AGGATATCGT CAATGGGCTG AGGTCTGTNC AGACTTTTGC 60
AGACAAATCA AAACAAGAAG CTCTGAAGAA TGACCTGGTG GAGGCTTTGA AGAGAAAGCA 120
GCAATGCTAA ACCTCTGTTT CATGCTAACC AGACACGCCG TGCACTCGTT AGATTCCTTT 180
CTTAGAAAAC TCGTTTTCTG CTCCCTTCCC TCGTCCCTTC CCTCCCGAC AGGTCACATA 240
ACAGCTGCAT CATTGACCGC ACAGCGCCAT CTCTCCCTGA GAATAAAGCC GATAGCCACC 300
NTCAA 306

SEQ ID NO:160

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00174

SEQUENCE DESCRIPTION:

GATCTATTGG ACTTTTTTTT GCAGGAAGTG CATTCTCTGG TCCTTCCCTA TTTTCTGTTC 60
TGGATGTCAG TGCAGTGACAC TGCTTACTGT TTTATCCACT TGGCCACAGA CTTTTTCTAA 120
CAGCTGCGTA TTATTCTAT ATACTAATTG CATTGGCAGC ATTGTGTCTT TNACCTNGTA 180
TACTAGCTTG ANATAGTGCT GTCTCTGATT TCTAGGCTAG TTAATTGAGA TATGAATTTN 240
CCATAGAATA TGCACTGATA CAACATTACC ATTCTTCTAT GGAAAGAGAA ACTTTTGATG 300
ATGAAACAAT AAAGNTTTTA AATATCAAA 329

SEQ ID NO:161

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00175

SEQUENCE DESCRIPTION:

GATCTGAATA AAGCAAATCT GCATAAATGG TAACCAGTAG CTCTACTTTN ATTTTNNATG 60
TTGCTTAACT GTTTTATTTG AAGGAAACCT GTGTGATTTA AAAAGTTATA GCTTTTGCAA 120
CTTTATTACT GGTTATATAC ATTTGGCCAT TATNATGTGC AAGCAATTGG AAAAAAGTC 180
AAGTAAATGC TTGTTTTTGT AGTAGTTTGT TCTGTGTTAA AATGTTTATA TGATAATGTC 240
TGTAACAGC ATCACTTTGA TTACAATAGA TGTAGTGTTG TAATAAACTG TTTAATGGGG 300
AAA 303

SEQ ID NO:162

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00176

SEQUENCE DESCRIPTION:

GATCTCTCTA GCTTTGTCAT AGTTATGTGA TTTTCCTTG TAGCTACTTT TGCAGGATAA 60
TAATTTTATA GAAAAGGAAC AGTTGCATTT AGCTTCTTTC CTTAGTGAC TCTTGAAGTA 120
CTTAACATAC ACGTAACTG CAGAGTAAAT TGCTCTGTTC CCAGTAGTTA TAAAGTCCTT 180
GGACTGTTTT GAAAAGTTTC CTAGGATGTC ATGTCTGCTT GTCAAAAGAA ATAATCCCTG 240

TAATATTTAG CTGTAAACTG AATATAAAGC TTAATAAAN CAACCTTGCA TGATTAAA 298

SEQ ID NO:163

LENGTH:309

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00177

SEQUENCE DESCRIPTION:

GATCTCCTTC ATCCCTCTCC AGAAGAGGAG AAGAGGAAAC ACAAGAAGAA ACGCCTGGTG 60
CAGAGCCCCA ATTCCTACTT CATGGATGTN AAATGCCAG GATGCTATAA AATCACCAG 120
GTCTTTAGCC ATGCACAAAC GGTAGTTTTG TGTGTTGGCT GCTCCACTGT CCTCTGCCAG 180
CCTACAGGAG GAAAAGCAAG GCTTACAGAA GGATGTTCTT TCAGGAGGGA AGCAGCACCT 240
AAAAGGCACT CTGAGGTCAA GGATGAGGTG GGAANCCAT CTCAATTAAC CACCATTTT 300
TGGGTAAA 309

SEQ ID NO:164

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00178

SEQUENCE DESCRIPTION:

GATCTCGGTA AAAATCTACC ATTCCTACA TATTTTCCTG ATGGAGATGA AGAGGAACTG 60
CCAGAAGATT TGTATGATGA AAACGTGTGT CAGCCCGGTG CGCCTTCTAT TACATTTGCC 120
TAACATCTTT GGACGTGGCA GAACCTTACA TATTCTGTGA GCTTCGATGA GCCAGAGTGA 180
TATCATAACC ACCAGAAATC ATACTCTCCT TTCTTAGTCA CAACAAAATC ACACATGTCA 240
TCTTTGTCAA GGCATAAAT ATATCATTCA TACCCCATTA AAATTTTGTT AGAAA 295

SEQ ID NO:165

LENGTH:289

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00179

SEQUENCE DESCRIPTION:

GATCCCCACC CCATGTGTTT TAAAAAGGCA GTAGCCTTTG CAGGGACCTG TCTGTCCCAA 60
CTGTTTGAAC AGTGTGTCTC TCAGATTCTG TGTTCAGAAG NCCCCTGNTG CATTGAGACT 120
TGAAACCTTT GGATAGGGGA AAAAATTATA TATATATATA TNNNTTTGTT CTGTTTGCAT 180
TTCTTAATTT GTGCTTGGA TGTGTTGATG TGCACAGCTA ATGATTCAAT GCGAGACAAG 240
ATTGGCGTCT GTGTTGTGGA GGTTCAAAT AAAGAGCACT CTTCAAAA 289

SEQ ID NO:166

LENGTH:300

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00180

SEQUENCE DESCRIPTION:

00339

GATCTGTAAA ATGTGATTTT TTA CTTCAC TTATAATACT TGTGATTGGG GAGGTTTGTG 60
 GAAATTC AAT TATGATGAAA AACCTATCTT TTTTGTAATG TTGGCATACT TGGGGAATTT 120
 AGTGGCAAAT ACATTCCCA GCAGGCCTT TGTGTTGC ACTAAGTCA AGGTTGCTGG 180
 GAAGTAGAGT CCATTTGGTT GATGAGCTT GACTGCGGT TTGGAACCTT ACCTCTCTC 240
 CTTAGCCCAA TATGCTGTCT TGGGTCCTAT TCAAATAAAG TTATTTCTCC TGGTCTCAA 300

SEQ ID NO:167

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00181

SEQUENCE DESCRIPTION:

GATCAAAAA CCATCTCCAC ATTTAAAAGA GATGTAAGGT GTATTCATAG GGATGGTGGC 60
 TCAACAAATC AAGCAAAGT GAATCAAGGG GAGGGGGAAG GGAATNAAAT GGAAAGGGAG 120
 GCTGATTCCC TCCCCTGAC TTACCACTAA TTTACTAGGC TACCTACTTT NATGAGTAAC 180
 CTCTCACAGC TACCCAGCAC ATGCCACAAT CCTATGCTCT TGCCTTCTTT NATCTGCACT 240
 GTGTGAAGGG ACTCTTTTAA ATAAATNAGC AAGTGTCTTA AGCTATGTCA AA 292

SEQ ID NO:168

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00182

SEQUENCE DESCRIPTION:

GATCTTGGCT GTATTTAATG GCATAGGCTG ACTTTTGCAG ATGGAGGAAN TTCTTGATTA 60
 ATGTTGAAAA AAAACCTTG ATTATACTCT GTTGGACAAA CCGAGTGCAA TGAATGATGC 120
 TTTTNTGAAA ATGAAATATA ACAAGTGGGT GAATGTGGTT ATGGCCGAAA AGGATATGCA 180
 GTATGCTTAA TGTTAGCAAC TGAAAGAAGA CATCTGAGC AGTGCCAGCT TTCTTCTGTT 240
 GATGCCGTTT CCTGAACATA GGAAAATAGA AACTTGCTTA TCAAACTTA AA 292

SEQ ID NO:169

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00183

SEQUENCE DESCRIPTION:

GATCCACATG AACGCACGCC TGAGATTTGG CCACTCACCT ATGTTTTGGG TGGATTGCCT 60
 AGGAAAGCAA GTCATATGGC CATTGATAGT TCTCATGTAA TTAGTTTTGC TCACCACTAG 120
 TACAGATGAC CCGTTTACAC GTGGCTTCCC TCGGAAGCCT CCTCAACAGT AGCTGGTGTG 180
 AAAGACTAAA TCAGTAGAGT TGGAAAAGCT TTATAACCGG TGTGTCATAT GCTTGCTATT 240
 TAAAGCTGTG TGTTGGTTTT GTTTTCTGC CACATTCCT AGTTTTTTAA TAAATATTTT 300
 CCAAAANTGG AAAAAANAA NNCCNCNCCN CCN 333

SEQ ID NO:170

LENGTH:401

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00184

SEQUENCE DESCRIPTION:

```
GATCTGGANG GGACACGTCA TGCCTTGGGC CTAGAATACC CTGATGNGAA AAGAGAAGAN 60
AAAGGGAGGC CATATCTACA ACACAGCCTC TCGGCACTGC TGCTCCTTAT TTAACTTTG 120
TNTTGATTG TCCTGTATTT ATCACAGTTT CTGTTGAACA GCTTTTCAAG TATTTGGGGA 180
GTTTATCTTG CCATCCTCCC CTTCTGGTTC TCTGCACCCA CCTGTCCCAC TGCAGTTCCT 240
TCCGTGCTCT GTGACTTTAA GAGAAGAAGG GGGGAGGGGT CCCGGATTTT ATGTTTGT 300
GNTNTTCTC CTTAGCAGTA GGAATTGATA TTTTCAATTT TGGAAGAACT AAAAGATGAA 360
TAAACTGGGT TTTTTTGT GTTTGNNTTT GNAAATTCAA A 401
```

SEQ ID NO:171

LENGTH:305

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00185

SEQUENCE DESCRIPTION:

```
GATCGAGCTC GCCTATNAGC AAGTGGCAAA CCCCCTCAAA TAAGCCCCTC CTGGGACTCC 60
CTCAACCCCC TCCATTTTCT CCACAAAGGC CCTGGTGGTT TCCACATTGC TACCCAATGG 120
ACACACTCCA AAATGGCCAG TGGGCAGGGA ATCCTGGAGC ACTTGTCCG GGATGGTGTG 180
GTGGAAGAGG GGATGAGGGA AAGAAATGGG GGGCCTGGGT CAGATTTTTA TTGTGGGGTG 240
GGATGAGTAG GACAACATAT TTCAGTAATA AAATACAGAA TAAAAATCAA GTGTTTTTAC 300
GCAAA 305
```

SEQ ID NO:172

LENGTH:289

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00186

SEQUENCE DESCRIPTION:

```
GATCTGAGGC AAGCTGGACA GGAGAGGTGG ATATTTNTTG ATGGAAGAAT TCAAGTTTAT 60
AATCAATTCC CACTTAGCAC TACTGTGTG CTAGGAAGCTT GAATGTGTAT GTTGACAAG 120
TCCTGCTTGG CCTGATGGGT GGGAGANGGA ACCTGAGCCT GGCTGAGATG GCTAGGCGGA 180
GGGCTTTGAA GTCCAAGCAG CTGAACTGGC TGGGTGGGTT TCTACCTTTG AAAGTGAAG 240
ACTNTTTTG GAGCTCTTAA TTACAATATC TGATATTTTT ACAGTCTGN 289
```

SEQ ID NO:173

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00187

SEQUENCE DESCRIPTION:

```
GATCCCTACC CTTNCCGTTG GTCTCTNTCG CTGACTCGAG GCACCTAACA TCCATTCACA 60
CCCAACACAG GCCAGCGACT TCTGGGGCTC AGCCACAGAC ATGGTTTGTN ACTNTTGAGC 120
```

TTCTGTTTCCT AGAGAATCCT AGAGGCTTGA TTGGCCCAGG CTGCTGTNTG TNCTGGAGGC 180
AAAGAATCCC TACCTCCTAG GGGTGAAAGG AAATNAAAAT GGAAAGTTCT TGTAGCGCAA 240
GGCCTGACAT GGGTAGCTGC TCAATAAATG CTAGTNTGTT ATTTCN 286

SEQ ID NO:174

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00188

SEQUENCE DESCRIPTION:

GATCGGGTTC TAAAGGAAAG GGTGGAGAGA TTCAACCACT TAGCGTGAAA GTTGGAGATA 60
AAGTTCTTCT CCCAGAATAT GGAGGCACCA AAGTAGTTCT AGATGACAAG NATTATTTC 120
TATTTAGAGA TGGTGACATT CTTGGAAAGT ACGTAGACTG AAATAAGTCA CTATTGAAAT 180
GGCATCAACA TGATGCTGCC CATTCCACTG AAGTTCTGAA ATCTTTCGTC ATGTAAATAA 240
TTTCCATATT TCNCTTTNAT AATAAACTAA TGATAACTAA TGNCATCAAA 290

SEQ ID NO:175

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00189

SEQUENCE DESCRIPTION:

GATCAAGGCG CGGACGTATC TACGACCACA TCAACGAGGG GAAGCTGTGG AAACACATCA 60
NGCACAANTA TGACAACAAG TAGTTCCTTG GNGGCCCTAT CCAGGCCAGA AGGCCANNGC 120
CACCCAGCAG CTGTTTGCCA GAGCTGGAGC TCAGTTGAAG ATGATGCTCA AGGTACTCTT 180
CATGGCCACC ATTCGTGTTG GAAGAACGNT TTACTIONNA CAGCTCTTTA CCTTCTGTGT 240
GTTTNAGNTG TTAGNAGATN TCAGGAATAA TGTGATTGCC TTGN 284

SEQ ID NO:176

LENGTH:282

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00190

SEQUENCE DESCRIPTION:

GATCAGAACA TGAAATGCCC TCCTAAATGT CAGCTGTTGT CACACAGTAG CTCCAACACT 60
TTGAGCATT TTAAGGGAGT GGCCTCATT CACTAGAGAC AAATCTTTAA GAATAGTTCT 120
AAAATTGGGC TTGTGATTTC CATTTCTGAT GTCTCCAGAT TGGCACCCTT TTCTAGTTCA 180
ATGCCTCACG AGATTTTGCC AGGGGCATCC AAGGCAAACA ATCCCAATCT TTCTATATAA 240
ANTGTATTCA AGCAAACATC AAATAANTTT CTGGGATATT TN 282

SEQ ID NO:177

LENGTH:278

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00191

SEQUENCE DESCRIPTION:

GATCAGAGTT TGAATGAAA TGTGTGTCAG GGTGTGGAA AAATTTGGT GAGTTCTGCA 60
 CATTCCCT GGTTCAGGCT GGGCATGGAC CAGCCTCAG ATGGCAGAAG TGGAAGATGA 120
 GCCTACTTGT GAGCGATGTG ACTTTAAGGA AATGAAGACT GGGGAAGAAT AATTAGTGTT 180
 TATAAGACAT TTAAGAGGCC CTTTTCATA TACTGACTCA CTGATGAATC AGCATNGCA 240
 TTNTATGGAA NAATATAAAT CCAAAGAAAT AATTAAA 278

SEQ ID NO:178

LENGTH:281

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00192

SEQUENCE DESCRIPTION:

GATCAAAATA ACCCTCGTAA AAATATATGT ANGGGGTACA CAAAGTAAGC CTCTTTATGA 60
 AACAAATTGAG GATAATNATG TGAAAGGTTT TAATGATGAT GTTCTACTTC ANATAGTTCA 120
 CTTTCTACTG AATAGACCAA AAGAAGAAAA ATCACAGCTG TTGAAAACT GAAAAAGCAT 180
 ATTTNATTGA GAACTGTGGG AATATTTAAA TTTTACTGAA GGACCAATAA TGATGAGATT 240
 TGTAAGTGTC AACTATTAAA TACATTGATT TTTGAGACAA A 281

SEQ ID NO:179

LENGTH:278

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00193

SEQUENCE DESCRIPTION:

GATCAGGCCC AGGAAGGGCA CAGGGGCTGA GCACTACAGA AGTCACATGG GTTCTCAGGG 60
 TATGCCAGGG GCAGAAACAG TACCGGCTCT CTGTCACTCA CCTTGAGAGT AGAGCAGACC 120
 CTGTTCTGCT CTGGGCTGTG AAGGGGTGGA GCAGGCAGTG GCCAGCTTTG CCCTTCCTGC 180
 TGTCTCTGTT TCTAGCTCCA TGGTTGGCCT GGTGGGGTG GAGTCCCTC CCAAACACCA 240
 GACCACACAG TCCTCCAAAA ATAAACATTT TATATAGN 278

SEQ ID NO:180

LENGTH:278

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00194

SEQUENCE DESCRIPTION:

GATCTACATT AATATCAAGT CTTGACTCCC TACTTCCCGT CATTCCTCAC AGGACAGAAG 60
 CAGAGTGGGT GGTGGTTATG TTTGACAGAA GGCATTAGGT TGACAACTTG TCATGATTTT 120
 GACGGTAAGC CACCATGATT GTGTTCTCTG CCTCTGGTTG ACCTCNACAA AAACCATTGG 180
 AACTGTGACT TTNAAAGGTG CTCTTGCTAA GCTTATATGT GCCTGTAAAT GAAAGTGCCT 240
 GAAAGACCTT CCTTAATAAA GAAGGTCTA AGCTGAAA 278

SEQ ID NO:181

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00195

SEQUENCE DESCRIPTION:

```
GATCTCTCCC CCGTGAAGGA GTTGAGCACA TTAGCAACAA TGTACATTAA TTTTGGATTT 60
TCATTTTCAT GTTTTATTTT GTAAATATTA TCTGATGTTT GGAGCTTGAG TATACAGACT 120
GTAAATATAG TTCTTGATT TGTACTAATT CTGATTCTTT TGCTNNCNG CCTTAGATGT 180
GCAATGCAGA CACTATCTAA CTGTGTGTGG TAACCTTGCG TCACGGAGCT GTTAGTGAAC 240
GAGGTAAAAA TAATAAAGGT ACAGCCAGTG CATCAAA 277
```

SEQ ID NO:182

LENGTH:282

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00196

SEQUENCE DESCRIPTION:

```
GATCAAAACN GATTACGGT GGGGGAGGAA TNTGAGCTGG AGACAATNAC AGGGGAGAAA 60
GTCAAGACAG TGTTTCAGTT GGAAGGTGAC AATAAACTGG TGACAACTTT CAAAAACATC 120
AAGTCTGTGA CCGAACTCAA CGGCGACATA ATCACCATA CCATGACATT NGGTGACATT 180
GTCTTCAAGA GAATCAGCAA GAGAATTAA ACAAGTCTGC ATTCATATT ATTTAGTGT 240
GTAAAAATTA AATGTAATTA AAAGTGANCT TTNGTTTTTA AA 282
```

SEQ ID NO:183

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00197

SEQUENCE DESCRIPTION:

```
GATCCAGATG ACCGTGGTNG TTGGGGTATA TCTCCTCGAG GAGCTGGTTA CACCTTTGGG 60
CAAGATATTT CTGAGACATT TAATCATGCC AATGGNCTCA CGTTGGTGTC TAGAGCTCAC 120
CAGCTAGTGA TGGAGGCATA TAACTGGTGN CNNGGCCCGG AATGTAGTAA CGATTTTCAG 180
TGCTCAAAC TTTGTTATCG TTGTGGTAAC CAAGCTGCAA TCATNGANCT TTGCGATAC 240
TCTAAAATAC TCTNTCTTGC AGTTTCACCN AGNNNNN 277
```

SEQ ID NO:184

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00198

SEQUENCE DESCRIPTION:

```
GATCTGAGAT TTCCGTGTTT GGCTGAACCT GGGAGACCAG CTGGGCCTCC AAGTAGGATA 60
ACCCCTCACT GAGCACCACA TTCTCTAGCT TCTTGTTGAG GCTGGAAC TGTTCTTTAA 120
ATCCCTTAAT TTTCCATCT CAAAATTATA TCTGTACCTG GGTCATCCAG CTCCTTCTTG 180
GGTGTGGGGA AATGAGTTTT CTTTGATAGT TTCTGCCTCA CTCATCCCTC CTGTACCCTG 240
GCCAGAACAT CTCCTGATA CTCGAATTCT TTTGGCN 277
```


SEQ ID NO:185

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00199

SEQUENCE DESCRIPTION:

GATCGGTTTT TGTTCCTGCG TTACCATATG ATTGTAAATT GTTTTATGTA TTAATCAGTT 60
AATGCTAATT AATTTTGTCT GATGTCATAT GTTAAAGAGC TATAAATTCC AACAACCAAC 120
TGGTGTGTAA AAATAATTTA AAATTCCTT TACTGAAAGG TATTTCCCAT TTTTGTGGGG 180
AAAAGAGCCA AATTTATTAC TTTGTGTTGG GGTTTTTAAA ATATTAAGAA ATGTCTAAGT 240
TATTGTTTGC AAACATAAAT ATGATTTTAA ATTCTCN 277

SEQ ID NO:186

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00200

SEQUENCE DESCRIPTION:

GATCCTGACA CTGACATGAA GGCAAGCCTT GATTTCGTAT GAACGTTGCT GAAGTGGTAA 60
TTGAGGAAAA CAGTTCCTCA GATTGTAAAG AGTTCCTGA AGATATTGAC ACAATTTNNA 120
AAAATCAGTA AAGGAATGTA TATAATATTG CNCTCGTGTT TTACAGTAAG ATTTGTTGCT 180
CTCAGACTGT GTAAAACAAA ATTNATNGNT GTTTTCTGCA TNTTAAAAAA TCTTATTGTA 240
CCANCTGGTA ANCTATTAAN TGCCTATAAN NCTAAA 276

SEQ ID NO:187

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00201

SEQUENCE DESCRIPTION:

GATCAAGGAN GAAAGANTGA CTTCAAATAT GCCTTGTTAG TGTAAATGTG ACTTNTNGAA 60
CTGTATGAGT ATTTTAAGAT TATTNGAGTA AAGTAAGTTT TAAAAAGCAG TCCCTAATCA 120
TCAAAAAGTAA AAAACTCTTG ATGTAGTCAT ATAACCACAC TAAGAACTCT TCCAGGTGAC 180
TTCAAAACAT AGGACAGTAC ATCTCTAGTA GANTNTGCCC TGAGAATGAA AAGAATGTAA 240
CAGTGTTAGT ATTTTGAATA AACATGTTAT TACTN 275

SEQ ID NO:188

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00202

SEQUENCE DESCRIPTION:

GATCACTTTT TTTAGAGTGA AGAAAGAACA ANCTTGTTTT TTGTGTTTTT TAAAGGAATA 60
TAAATAATG AAGGATGTAT AATTGATGCC AAATAAGCTT GTNCTTTAGT CACACCGACG 120

TCTTATTTTT CCCTTTAGGC CAGTTCTGTT TTTAAGGTGT ACATGGNCAA TGTTACAGTG 180
TAAGAACTC CATATCCATA TGTNCCATT CGCATTTTGT ATTGGTTCAT GTATACCATT 240
TTTNCAAAAN ANANGGAANA ANNGGNAGTN CTN 273

SEQ ID NO:189

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00203

SEQUENCE DESCRIPTION:

GATCTGAAAA GCTCACTTTA AACTCATACT ACATTCGTNA CGAGTATTTN ACGTTAACAT 60
AATTGAAAAG TACAAGGTCC AAGCTGGCTT TCAAATNATG TCTAAACAGA AATGGGACAA 120
ATAGACTTGA AAATAGAAGG GATTTATTCC ACCCCTGCAA GGGTAAGAGT CAGGTGAGAG 180
TCCCTGGTG AGTCATTTGT ACATCAGTGT CATTTCTTCT TAACCTCTGA AGAAAGATGG 240
GCATCAGAAA TAAAGACAAA GCACTATCAA A 271

SEQ ID NO:190

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00204

SEQUENCE DESCRIPTION:

GATCTGCCAC GAGGGCAGCA GCCAAGAGGA CTTGCTCTCT CCATGTGAAT GTACAGGGAC 60
CTTGGGGACA ATTCATCGGA GCTGCCTGGA GCACTGGCTG TCATCCTCAA ACACCAGCTA 120
CTGTGAACTC TGCCACTTCA GGTTCGAGT CGAGCGAAAA CCCAGGCCGT TAGTGGAGTG 180
CCTGGGAAAC CTTGGCCCCC AGATTGGGAG GGGNCTTTT TTTGGNGANA TGGTNNNTTT 240
TGGGTTNTAA ATCNCNGGG NNCCATNTNN 270

SEQ ID NO:191

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00205

SEQUENCE DESCRIPTION:

GATCTCTGAG CTGCCCAGCA TAGTCCAAGA CCTAGCCAAT GGCAACATCA CATGGGCTGA 60
TGTGGAGGCC AGGTATCCTC TGTTTGAAGG GCAAGAGACT GGTAAGGAG AGACAATCGA 120
GGAATGAGGA CAATTTTGAC AACTTTTGAC CACTTGCCT AATAAA 166

SEQ ID NO:192

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00206

SEQUENCE DESCRIPTION:

GATCTACATG AGAAGTATAG TGGCTCTACC CCCTGAAAGA GGGTGGATGC AGCTGCTTGT 60

GTTCCTGGG GTGACTGTCA TTGGTAATAC GGACACAGTG ACCCATCCTC CATCCTATTT 120
ATAGTGGAAG GGCCTTCAAT TGTATCAGTA CTTTNTTTTA AGCTCTGGCA CATTGACCTC 180
TATGTGTAC CAGTCATTAA TGAGCTGCTG CAGAGGTGAC TATTTGTTTT ACTTTCTTGG 240
ATGTTAACAT TACTACTCTC ACTACTCAAT CTCAA 276

SEQ ID NO:193

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00207

SEQUENCE DESCRIPTION:

GATCTGACAT TTGACATGAA CACAAAGTTG CTAGATGCTC TTGTTGACTT CCAGCAGATG 60
GGATGGGGGA AACACAGCAG TTCTTGGTAA AGTCCTTTGT AATAATAGTT TGATTTTTTT 120
ATTCGAGAG AATCTTTCAT TTTCCTATGT ATGCTTTTN CCTTTTTGC CCAGTTTCCT 180
TATCACTTGC TGTAGATGGC TTATNTNGCA TTCATGCAGA CTATGTTGCA AGTCTGTTTC 240
ATCTAGTAAA CTGAAAATNA TTGCTTAATC AAA 273

SEQ ID NO:194

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00209

SEQUENCE DESCRIPTION:

GATCCCAGAG AGGGAAGAGA ACCAGGGGCC CTTTTCTCTT TNAGAATTTN CTTTAAATCA 60
GCCACCTTT TGACTCCCGG CCGGCCCAA TCCATTATNT TTTCTGCCT TCCGGGTCCC 120
ATCCTTAGAG CTCGAGTCGT TCCTTCCCTT CCTGGATTCC GGGTAGCAGA GGCAGCGCCG 180
CAGGAGGCGG GTGCCGTTT GTCCAGGNC TGGGCGTGGT GGAGNNAGGG GTGCTGGAAC 240
AATAAACGGC ACNNNNCAA TGTCAAA 267

SEQ ID NO:195

LENGTH:384

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00210

SEQUENCE DESCRIPTION:

GATCCAAAAC ACTACTCAGC TCTCTTGAC TGAGGAAATT TTTCCCCTA CATTGACTCC 60
TGGCCTACAT CAGCCAACT TAACCTTGGT GGGGTTTGA TTTGATAGCC AATTAGTTCT 120
GTGCTGGTTG CAAAGAATTG ATATTTAGAT GGTTTTTAAT ACTCAGCAGA TTGTCTTCCT 180
TTATATTGTG TCTTTTTTAT GTNGCATGTN GCTTTTGTTA TCAGCCTGAT TTTTGCTCA 240
GTATATGATA GTNCTGCTGA TGTTTTGTTT ATTGGGCAGA CATATCTTCA TTAAGAGTTT 300
TTGGAAACT CATCAAATC GATGAATACA TTTTCTTCAT AACCATTG GAATTATTC 360
TAATAAATG ATAAATACG TAAA 384

SEQ ID NO:196

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00211

SEQUENCE DESCRIPTION:

```
GATCTAAAAA AATTCAGAAG AAATATGATG AAAGGAAAAA GAATGCCAAA ATCAGCAGTC 60
TCCTGGAGGA GCAGTTCAG CAGGGCAAGC TTCTTGCGTG CATCGCTTCA AGGCCGGGAC 120
AGTGTGGCCG AGCAGATGGC TATGTGCTAG AGGGCAAAGA GTTGGAGTTC TATCTTAGGA 180
AAATCAAGGC CCGCAAAGGC AAATAAATCC TTGTTTTGTC TTCACCCATG TAATAAAGGT 240
GTTTATTGTT TTGTTCCAC ATTTATGTTG CCTGAAA 277
```

SEQ ID NO:197

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00212

SEQUENCE DESCRIPTION:

```
GATCGGCGGC GCGCAGNAAC CGCTCCTACA GCAAGCTGCT GTGCGGCCTG CTGGCCGAGG 60
CGCCTGCGCA TCAGCCCGGA CAGGGTCTAC ATCAACTATT ACGACATGAA CGCGGCCAAT 120
GTGGGCTGGA ACAACTCCAC CTTGCCTAA GAGCCGCAGG ACCCACGCTG TCTGCGCTGG 180
CTCCACCCGG GAACCCGCCG CACGCTGTGT TCTAGGCCCG NCCACCCCAA CCTTCTGGTG 240
GGGAGAAATA AACGGTTTAG AGACTAGGAA A 271
```

SEQ ID NO:198

LENGTH:264

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00213

SEQUENCE DESCRIPTION:

```
GATCCTGTAG TGTCCTGGA GAAGCTAGAG CCTGATTGTA GGCTACTACT CATCAATTAA 60
CTTCTACAGT GGAGACTACT TCTGGGACTG GAATATAAAA AAGAATCAA GGTCTGATT 120
TTNAGTTGCA ATAAAGGGAA AGACCATGCT CATAGCAGTG CCAACATCTG AAGTGTGGAG 180
CCTTACCCAT TTCATCACCT ACAACGGAAG TAGTAACTG GAAGAGATTA CCAAGAGAAT 240
AAAAAGAGAC TCATTCAGTG GAAA 264
```

SEQ ID NO:199

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00215

SEQUENCE DESCRIPTION:

```
GATCTGCCTT AAAGAAAAGA AAATTTTAGA AAGAAATATT GTTGCTCAGT GTTGTTAATA 60
TAGCTCAAGA ATTGAGTTTA TATTTGCAGT ATGCTATAAA TGATACCCC CTACCACACC 120
CACACACACA GTTTTTGTCT AATGAAAATG TTGCTGTGAT TATTTATAAT TGGTAGTATT 180
TCTTCAGAA GAAGCTAAAA TAAGACTGGC ACTTACCCTG AAGTGCATTA ATAAAACCAC 240
ACTTTAAAT TAANAAA 257
```

SEQ ID NO:200

LENGTH:374

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00216

SEQUENCE DESCRIPTION:

GATCAACCTG AGCNTGGAGA ATGCCTGGGG CATTTAACGC TGCCTCATTG ACATCTGCAT 60
GAAGCTGGAG GAGGGCAAAT ACCTCATCCT CAAGGACCCC AACAAGCAGG TCATCCGTNT 120
CTACAGCCTC CCTGATGGCA CCTTCAGCTC TGATGAAGAT GAGGAGGAAG AGGAGGAGGA 180
AGAAGNGGAA GAAGATGNGG ANGAACTTA AACCAGTGAT GTGGAGCTGG AGTTTNTCCT 240
TCCACCGAGA CTACGNGGGC CTTTNTATGCT TAGTGGAATG TNTGTCTAAC TTTGCTCTCT 300
TGACATTTTA GCAGTTGAAA TTAAATTATA TANTCTGTTT TNNGTCTTTT NAAATAAANA 360
AAANNANATT NTGN 374

SEQ ID NO:201

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00217

SEQUENCE DESCRIPTION:

GATCTGAAGT ATTTGCTTTC TCTTCAAGAT AAGTTGTATT TTACCATGGA AAAATACAGT 60
ATCTAACATT ACCATTACAG TTAAATGAAG TTTCCTCATA ACATTATCT TTAGTTTTAT 120
GAAGTCATCG TGACCAATGT TACAGTAATT TCTGTAGCT GATTGTGGTA AACAATGTTT 180
AATGNGAAAA GAAATTAAAA CTTTCTTCAT CTGTTGTAGA ATATTTCTCT TCTTTAAAAAT 240
GGCTTCTATT CATAAA 256

SEQ ID NO:202

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00218

SEQUENCE DESCRIPTION:

GATCCCCACT GGAGCAGCCT CTGCAAAAGG GAGCCCATGT AGTGGCCAGG GGCTGTCCAA 60
ACTCCAGCTT CTTCCCCTGG GAAAAAACC AAAGAACCAA AAACAAACCA CCCCAAGGAT 120
AATAATAGCT AACTGCTAG CTTCTCAAGT TCTTGTGAAA AACAATTTAC ATAATGACAC 180
AGTAGATGTG GAACACCTAG CCAGTGCCTG GGCAGGTCCC TATTATCATA AATGAACATA 240
AAGTGCTCTA AAAACN 256

SEQ ID NO:203

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00219

SEQUENCE DESCRIPTION:

GATCCAAATC AGGAAAAGAC GGCGCCACTA CAATGGAGAA GCATATNAGG ATGATGAACA 60
TCATCCCAGA GGTGGTGTTT AGTGTGAGAC CTCTTAATGG GCCAGTGAAT AACACTCACT 120
GCTGGCATT T AATGTGCAGT AGTGAATGAG TGAAGGACTG TAATCATAAT ATGCTCACTA 180
CTTGCTCTTG TTTTGTGTTT AATAAACTAT AGTAGTGTTA TAANNNGTTA AATGAAGAAT 240
AAACGCAAAT ATANAGCTC TGAAA 265

SEQ ID NO:204

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00220

SEQUENCE DESCRIPTION:

GATCTAAAGA GACACTTAGA GACTCTTGGG GACCTCAGAT TTCCACCNCT CCACAGCATT 60
CTGCCTACAC AGTCCCCTC ATTTNCCTA GTTACTCGGA AGAGCGCTGG ACTTGAAATC 120
AAAATAATTG CGTTATGTCT TTGGTTATGT CGCTTCATCA TAGCACTTTC TAAAACTATT 180
TGACAAACAT GTATTGCATA CCTACNGCAT TCCAGTTCTN GTACANGTAA TTAAATGCTC 240
GACTAACGNN AAA 253

SEQ ID NO:205

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00221

SEQUENCE DESCRIPTION:

GATCTGGAAT TGGACATTC TCTGTCAGAG CACAGAGGAG GCTCATATCA CCTCTTCCCT 60
CTCCTACTTG GCCCAGCTGC TTGGAGGACC GACCCCATGG CTGAGAATAT NACGGCAAGA 120
GGAACAGAGN TTGCTCCAAG TGGGAAAGGG TCCCAAGCAG TCCAGAGAAG ATGTCTGTGT 180
GGCTTTCCCT CCCTGCCTCC CCCAGCTCCC ACACTGGCCT TTGTAAATAA ATGGCGTGGT 240
CTTTGTTGTG AAA 253

SEQ ID NO:206

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00222

SEQUENCE DESCRIPTION:

GATCTGCCGT CTGTCACCTC TCTCCAAGTT GAGACAGGGG CCTGGATTTC AGCCCTTCCT 60
GCCGAGAAAT CTTNTAAATT TCAACCTACC TTAAAAATA AAGTCTCCCT ACTTAAAATC 120
CAGTAGATAT CATGGCACTA ATGCTAACAC CCCTTTCCCC AAATTAATAA AACAAAAATA 180
AAAAAAGAA AAAANTGCAG GCATGCAAGC TTGGCGTANT CATGGNNTNA GCTGTTTCCC 240
NGTCACGGCG TGN 253

SEQ ID NO:207

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00223

SEQUENCE DESCRIPTION:

GATCGAGACA CGTGATGGGA AGCTGGTGTC TGAGTCCATN ACGTCCTNCC AAGTGAACAG 60
CTGCGGCAGC CCTCCCAGCC TACCCCTCCT GCGCTGACCC AGAGCCTGGG AAGGAGGCCG 120
CTATGAGGGT AGCACTGGGA ACAGGAGACC CACCTNAGNC TCAGCCTNGC CTCAGTNTAC 180
TGGGGAGTTT ACTACCTGGG GCCCANTTGA CATGCTCCAG CTACANACAN TTANTTGCTT 240
TTTTNTTGGN N 251

SEQ ID NO:208

LENGTH:243

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00224

SEQUENCE DESCRIPTION:

GATCGATTCT TGTATATTNA TTTTATCTCT TTCTGTATCT ATAGGTAAAT CTCAAGGGTA 60
AAATGTTAGG TGTGACATT GAGAACCCTG AAACCCCAT TCCCTGCTCAG AGGAACAGTG 120
TGAAAAA TCTCTTGAGA GATTTAGAAT ATCTTTTCTT TTGCTCATCT TAGACCACAG 180
ACTGACTTTG AAATTATGTT AAGTGAAATA TCAATGAAAA TAAAGTTTAC TATAAATAAT 240
AAA 243

SEQ ID NO:209

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00225

SEQUENCE DESCRIPTION:

GATCACANTT AATGATTCAG TATAATGTTT GAGGCCAGAC AAGATATATA TTGTGCCTCT 60
TACAGCCTTT GGNNCNNTTG TTTCCATTTT TAAATATCT TCTATATCCA TATAGTATTC 120
AAATNATTAA TGCTCATGTA CCAAGGTTTT GCTATAAAG TTTGNCTGT ATGAATAATG 180
TGGCTTTAGT AAATAATCAT TTTCAACTG TAAACTTATT CTGAAATAAA GTAAAATTCT 240
AATTGTTTN 249

SEQ ID NO:210

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00226

SEQUENCE DESCRIPTION:

GATCATAGAA ATATATGTAA AGTATTCAAT TTTCAATCAT TTTCAAATNA CTGTTATAAA 60
TTGTTTTTGC TGAGTTGTAA TACTTTTNAG ATACAATGTA TTCCTTGAC TGAAAGAATG 120
AAAAAGGACT TTTTCAGCAT TTGAGGTAAG TNCTTTAACG TTTCATTAAA ANCATTTTTT 180
ACAAATATTT TGTACATGCA CTTGCAGTAT TGAGGTTAAT CATTTTAATA AATNCGGAAA 240
TAAAAACN 248

SEQ ID NO:211

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00227

SEQUENCE DESCRIPTION:

GATCTCAGCN TTGCAAACAC ANTTNCTACA TAGATAGTAC TAGGTATNNT TTAGATATGT 60
AAAGAAAGAA ATCACACCAT TAATAATGGT AAGATTGGTT TATGTGATTT TAGTGGTATT 120
TTTGGCACCC TTATATATGT TTTCCAAACT TTCAGCAGTG ATATTATTC CATAACTTAA 180
AAAGTGAGTT TGA AAAAGAA AATCTCCAGC AAGCATCTCA TTAAATAAA GGT TTGTCAT 240
CTTTAAA 247

SEQ ID NO:212

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00228

SEQUENCE DESCRIPTION:

GATCAAAACA AACAAATCCAG ATGTATAAGT ACTAGGCAGA AGCCAATTTT AAAATTTCTT 60
TGAATAATCC ATGAAAGGAA TAATTCAAAT ACAGATAAAC AGAGTTGGCA GTATATTATA 120
GTGATAATTT TGTATTTTCA CAAAAAAAAA NGTTAACTC TTCTTTCTT TTTATTATAA 180
TGNCAGCTT TNGGTATTTT ATTGTTACCA NGTTCTATTT TTNGANTAAA ATTGTTCTCC 240
TTCTAAANGT TTAAA 256

SEQ ID NO:213

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00230

SEQUENCE DESCRIPTION:

GATCGGCAAG CCCCACTG TCCCTTGCAA GCCAAGGCCA CCTTTNATGC CATTTCTAAG 60
ACCTACAGCT ACCTGACCCC CGACCTCTGG AAGGAGACTG TATTCACCAA GTNTCCCTAT 120
CAGGAGTTCA CTGACCACCT NGTCAAGACC CACACCAGAG TCTCCGTGCA GCGGACTCAG 180
GCTCCAGCTG TGGCTACAAC ATAGGGTTTT TATACAAGAA AAATAAAGTG AATTAAGCGT 240
GAAA 244

SEQ ID NO:214

LENGTH:243

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00231

SEQUENCE DESCRIPTION:

GATCAGATTG GGTCTGCTC CTCTCAACCT TGAAGTCCCC ACGTATGAGT TCACCAGTGA 60
CGATATGGTG ATTGTTGGTT AAGAGACTTG GACTCAAGTC ATAGGCTTCT TTCAGTCTTT 120
ATGTCACCTC AGGAGACTTA TTTGAGAGGA AGCCTTCTGT ACTTGAAGTT GATTTGAAAT 180

ATGTAAGANT TGATGATGTA TTGGCAAACA TTAATGTGAA GTAAATNGAA TTNAATGTNG 240
AAA 243

SEQ ID NO:215

LENGTH:243

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00232

SEQUENCE DESCRIPTION:

GATCGCCAGT GGAAGAAGAT TAGTGCAATC ATTGAGAAGA GGAAGAAGAT GGAAGCTGAT 60
GGGGTTGAAG TCAAAAGACC AAAATACTAA TCACTAGTTA CAACCAGAGA TGCTCCACAA 120
GGATATGCTC CCCACGGTTT TCTTTCTACA ATTTCCAAAG GTTGCAAGAT GTTTTTTTGT 180
GGATGAATAT AAAATTTTAT TGTGTAATTA CTTGGTTCCA TAAAATTGG TTAAGTTGCT 240
AAA 243

SEQ ID NO:216

LENGTH:243

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00233

SEQUENCE DESCRIPTION:

GATCGTAGAT GTTAACCAAA TCTACAAAAT CCACTACTCC CCCGTTATCA ACGGGATACG 60
TTCCAAGACC CCCAGTGGAT GCCTGAAACT GGCTAATGCT GAACCTACA TATACTATGT 120
TTTNTCTGTA CATATATATG ATAAAGTTTA AATNATAAAT NAGGTACAGT AACAACAATA 180
ACAGTAAAC AACAGTTATA ACAATATACT GTAATAAAG TCATGTGAAT GTGGTGTTTC 240
TCN 243

SEQ ID NO:217

LENGTH:242

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00234

SEQUENCE DESCRIPTION:

GATCTTCTCC AGATTGGCAG AAAGTTGATA TAGGTGGACT TTTTACAGG TCAGTTGAGG 60
CAAAAACTA TGGGTTTTTT CAGGTGAACC TCCCCATTT AAATACTCAG AAGATAAGGT 120
GTGAATGTAT GTATTATTAG AGTCCTAAAG TATTTTATAA GTACTGGTTT CACCACGCTT 180
TGTGGGAGAG AAATCATTCA AATCATTTTT TTTGTCCGTA CAATAAAGTT TACTAAAAAC 240
CN 242

SEQ ID NO:218

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00235

SEQUENCE DESCRIPTION:

GATCTTCGTG ATACTGTACA TAGCTGTTG AAATGCCAGA ATGACTTCTG ACATNCCAAG 60
TTTTTCACAA AATATATTTN ATCTGTGATT AGCCATTGA CTAATAATAC TGGCTAACAG 120
ATGTTGAAAA AAATTGTCTG TTTTCTCATT AATTTTGGTC TAAAACATGT TTGCACTTGT 180
NTTTGACTTG TGTTTTATTA ACATTGATTG GCATATTAAA AGTCACTCNG AGCTTAAA 238

SEQ ID NO:219

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00236

SEQUENCE DESCRIPTION:

GATCCAAANN ATGACTTCAG AAAAACTTG AAAGTAACAG CAGTGCCTAC ACTACTTAAG 60
TATGGAACAC CTCAAAAACT GGTAGAATCT GAGTGTCTTC AGGCCAACCT GGTGGAAATN 120
TTGTTCTCTG AAGATTAAGA TNGGTAGGAT GGCAATCATG TCTTGATGTC CTGATTTGTT 180
CTAGTATCAA TAAACTGTAT ACTTGCTTTG AATTCATGTT AGCAATAAAT GATGTTAAA 239

SEQ ID NO:220

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00237

SEQUENCE DESCRIPTION:

GATCAGAGGT GAAGGGACAG AGAGAGGAGA GGAGGAAGAT TGAGCTGGGG GCAACAGCCA 60
AGCTCACCTG GGCAGGTCTC TGCCACCTCC TTGCTCTGTG AGCTGTCACT CTAGGTTATT 120
CTCTTTTTTT GTGGCTATTT TTAATTGCTT TGGATTTGTT AAATGTTTTT TGTCTTCTGT 180
TAAGTGTGTT TTCTCTGGAG ATAGAATGTA AACCATATTA AAAGGAAAAA GTTTCAGACA 240
AGCAATTAAA 250

SEQ ID NO:221

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00238

SEQUENCE DESCRIPTION:

GATCAGCTTT GTCCTGAAA TTGCATCCGA AGAAGAAAGA AAGGGGATGG TGGCTGCGTG 60
GTCCCAGAGG CTGCAGACCA TCTGGAAGGA AGAGCCCATC CCCTGCACAG CCCACTGGCA 120
CTTCGGGCAA TAACTCTGTG GCACGTGGGC ATCACGTAAG CAGCACACTA CGAGGCCCG 180
GCGCAGGCAA AGAGAAGATG GTGCTGTCAT GAAATAAAAT TACAACATAG CTACAAA 237

SEQ ID NO:222

LENGTH:243

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00239

SEQUENCE DESCRIPTION:

GATCAGTGTA GAACTGGTCA TAGAGGAAGA GCTAGAAATC CAGTAGCATG ATTTTAAAT 60
AACCTGTCCT TGTTTTGTAT GTTAAACAGT AAATGCCAGT AGTGACCAAG AACACAGTGA 120
TTATATACAC TATACTGGAG GGATTTTCATT TTTAATTCAT CTTTATGANG ATTTAGAACT 180
CATTCCCTGT GTTTAAAGGG AATGTTTAAT TGAGAAATAA ACATTTGTGT ACAAATGCT 240
AAA 243

SEQ ID NO:223

LENGTH:232

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00240

SEQUENCE DESCRIPTION:

GATCTAATAA CAGGTTGACA TAAGAAATAT TTGTCTCAA AATCAATGTA TTTAATAGTT 60
GACAGTTACA AATCTCATCA TTGAAAGATT TAATTTTAGT TACCTTTTGT TGATTTANNN 120
NNNATTGCAT TTGTATATTG CTAAGTATA AGACAAATTG AGTTATTGAG CTATTAANTG 180
CACATTTTAA TATAANTGCA GAAATCCCAA ATAAATGCT AACATACTGA AA 232

SEQ ID NO:224

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00241

SEQUENCE DESCRIPTION:

GATCACCGTG ACATCCGAGG TGCCTTTCTC CAAAAGGTAT TTGAAATATC TCACCAAAAA 60
ATATTTGAAG AAGAATAATC TACGTGACTG GTTGCGCGTA GTTGCTAACA GCAAAGAGAG 120
TTACGAATTA CGTTACTTCC AGATTAACCA GGACGAAGAA GAGGAGGAAG ACGAGGATTA 180
AATTCATTT ATCTGAAAAA TTTGTATGA GTTCTTGAAT AAAACTTGGG AACCAAA 237

SEQ ID NO:225

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00242

SEQUENCE DESCRIPTION:

GATCTTCACT TAANCTAAGT CTGTGAATTA CTTTATATT ATTTTGAAAN ACTCCTTGCA 60
GTATATTGGC ATGATACAGT AAAAGCANTT TCCACAGATT GTTATCACCT TCTTTAAAG 120
AAGTCAAAAT TAAAAAATA CAATAGCACG TTGTTGGTGT CATATTCAAT AACATTTCCA 180
ATGCTACATA TAATTTTATA GACATAATAA AGAAGGTATT GAAAAACTA AATAAA 236

SEQ ID NO:226

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00243

SEQUENCE DESCRIPTION:

GATCGCCACC TACCGCCGCC TGCTGGAAGA TGGCGAGGAC TTTAATCTTG GTGATGCCTT 60
 GGACAGCAGC AACTCCATGC AAACCATCCA AAAGACCACC ACCCGCCGGA TAGTGGATGG 120
 CAAAGTGGTG TCTGAGACCA ATGACACCAA AGTTCTGAGG CATTAAGCCA GCAGAAGCAG 180
 GGTACCCTTT GGGGAGCAGG AGGCCAATAA AAAGTTCAGA GTTCAAA 227

SEQ ID NO:227

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00244

SEQUENCE DESCRIPTION:

GATCAGCAAG CAGGAGTATG ACGAGTCCGG CCCCTCCATC GTCCACCGCA AATNCTTCTA 60
 GGCGGACTAT GACTTAGTTG CGTTACACCC TTTCTTGACA AAACCTAACT TGCAGAGAAA 120
 ACAAGATGAG ATTGGCATGG CTTTATTTGT TTTTTTTGTT TTGTTTTGGT TTTTTTTTTT 180
 TTTTGGGTT NNCCCNGGT TTAAA 205

SEQ ID NO:228

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00245

SEQUENCE DESCRIPTION:

GATCTGCCCC AAGAGGTGTT GGCTGAGCTT NAGGCCCTGG AGAGACGTGT GCACAAAATG 60
 TNACCTGAGG CCCTAGTCTA GCAAGAGGAC ATAGCACCTT CATCTGGGAA TAGGGAAGGC 120
 ACCTTGACAG AAATATGAGC AATTTGATAT TAACTAATAT CTTCAATGTG CCATAGACCT 180
 TCCCACAAAG ACTGTCCAAT AATAAGAGAT GCTTATCTAT TTAAA 226

SEQ ID NO:229

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00246

SEQUENCE DESCRIPTION:

GATCAGCCCC AGATTTGACG TGCAACTCAA AGACCTGGAA AAATGGCAGA ATAATCTGCT 60
 TCCATCCCGC CAGTTTGTTT TCATTGTACT GACAACCTCA GCTGGCATCA TGGACCATGA 120
 AGAAGCAAGA CGAAAACACA CAGGAGGGAA AATCCTGGGA TTCTTTTCTT AGGGATGTAA 180
 TACATATATT TNCAAATAAA ATGCCTCATG GACTCTGGTG CTTCCAAA 228

SEQ ID NO:230

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00247

SEQUENCE DESCRIPTION:

GATCTGCGAC CATTTCTGTA CAACACAAGC TGGCCTTGGC AGTTTCGGTG CATAGAAAAT 60

CAGGTGCTAC AGCTCGAGAG GGCAGAGCCA CAGTCCCTGG ACGGCGTGGA CTGAGGCCGG 120
TTCCTTCCTG GAGGCCTCCT GTCCTCGGGG ACCCCAGCAC CTCATCATCA GCATTGCTGG 180
AGCCAAGGGT AGGAGCCCTA CACTAGGAGC CCAGGATGGG ACGGNGNATN AGCCGAGAGG 240
NAGGGAACCT TTNAGTNAAA TTCCTCAAAA AGAGGNTTAG AATAAANCCT TNGGCTTAAA 300
AAGAGAAA 308

SEQ ID NO:231

LENGTH:230

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00248

SEQUENCE DESCRIPTION:

GATCCAAAGA CAGACCACAG ACTGGGAAAA GTTGAAGAT GAACACTTGA GGAATTCAGC 60
TTCTACCTA CTTAGTACAG TTGGGAACCA TACACTTCTG GCATGTTTG AAATCAAAAT 120
GTCACATTCT CGGGGGAGGA AGCCCAGAAA ATTGGGTATG TTCTAGAGAT TTACCACCAT 180
TGCTTATTGC TTTNCTCTT TAATAAGTT TAGGAAAGTA GAATTTTAAA 230

SEQ ID NO:232

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00249

SEQUENCE DESCRIPTION:

GATCTAAAGA TTTCTCTATC CAATGAATCT AACAAAGTCA ATGGAAATTG AACTCTAGAA 60
TTGTCTCTAG AAAACATAGC TTCTTACTGA ACTTGAACAT TTTACAACA TTCACTGGTT 120
TTTGTTTTGT TAGCTAATAA TCTATAATAG TTGAGTATCT CTGGGAATGG GGAGGGAAAT 180
TATATGTAAT AGAGCTTAAA AATAAAGTGT CAATTTCCAA GGNCTAAA 228

SEQ ID NO:233

LENGTH:221

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00250

SEQUENCE DESCRIPTION:

GATCAATAAG CATGTCAGAC TGATTAATGT CTAATGTGAA AATTTGGTAG TAAATTTNCA 60
TTTGATATTA GATATAAATA TCTGAATATA AATAATTTNA ATATACTAGT CATGATGTGT 120
GTTGTATTTN AAAAATTATC TGCAACCTTA ATTCAGCTGA AGTNCTTTAT ATTTCAAAG 180
AATGAATAAC ATTGATAATA AAATCGCTAC TTAAAGGGAA A 221

SEQ ID NO:234

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00251

SEQUENCE DESCRIPTION:

GATCTCTATG AATGTCAGAG CCCTAACTTT CAGGCTTTGC ATTTTGTATA TGGGAAGAAA 60
TATGACAATC CTAGGTAATT AAACCATAGA CCCAAAGCCC TTACGTTTGA TGCAATTTAT 120
TTTTAAATA GGCCTTGTTT TTCAGCTTCA TCTGCAGTTC TATGTGAAGA TTGATAAATC 180
AGTTTTTACT TGTTTTATTA ATAAACGTA ATTNGGAAA 219

SEQ ID NO:235

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00252

SEQUENCE DESCRIPTION:

GATCTCCGTT CCGCTCCCAG CGGCTCCAGT GTAAATTCCC CTTCCCCCTG GGGAAATGCA 60
CTACCTTGTT TTGGGGGGTT TAGGGGTGTT TTTGTTTTTC AGTTGTTTG TTTTTTGTT 120
TTTTTTTTTN CCTTGCCTT TTTNCCCTTT NATTTGGNGG GAATGGGAGG AAGTGGGANC 180
AGGGAGGTGG GAGGTGGATT TTGTTNATTT TTTAAGCTCA TTTCCAGGGG TGGGANTTTT 240
TTTTNAANAT GNGNCATGAA NAAAGTTTGT TTTTGAAANT AACCAAA 287

SEQ ID NO:236

LENGTH:222

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00253

SEQUENCE DESCRIPTION:

GATCAGAATT GGCAGCACAA AGAAAACGCC CTCTCCTGAC TTGTATTGTG GCAGTCTGAA 60
CGNCCCCAGA AAATTGTGCC AAAGAGTTTA GAAAAATAAA TATACAATAA AAGTAAACAC 120
ATACACACAA AACAGCAAAC TTCAGGTAAC TATTTGGAT TGCAAACAGG ATAAATTAAA 180
TGTTCAAACA ATCTGATAAA ATAACCATTT GGGNCTTGNA AA 222

SEQ ID NO:237

LENGTH:221

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00254

SEQUENCE DESCRIPTION:

GATCATCTTT CCTNTCCAG AGAAGTGGGC TGGATGTCTC CATCTCTGTC TCAACTTTAC 60
GTGTACTGAG CTGCAACNTC TTA CTCCCT ACTGAAAATA AGAATCTGAA TATAAATTTG 120
TTTTCTCAA TATTTGCTAT GAGAGGTTGA TGGATTAATT AAATAAGTCA ATTCCTGGAA 180
GTTGAGAGAG CAAATAANGT CCTGAGAACC TTCCAGACAA A 221

SEQ ID NO:238

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00255

SEQUENCE DESCRIPTION:

GATCAGACGT TTTACAAATN CATGAAGCGA ATTGCTGCTT GTAAGGAGCA GATTTTAAGG 60
TATTCCTGGA GTGGAGAGCC ACTCTTTTTA ACCTGCCCTA CATCAGANGT CACCGAGCTC 120
CCAGCCTGCA GCCAGTNTGG AGGCCAAAGG ATATTNNATT TTCANCTTAT GCCAGCNCCTG 180
GTCAGCATGC TCAANAGTGC TANTTTAGGT CTTNCTN 217

SEQ ID NO:239

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00256

SEQUENCE DESCRIPTION:

GATCTCTCTG AGTCCTGGCA ACATCCAGCA AACTACTGCT TTATTCTCCA AAGAATATTG 60
GGAGCTCTCA ATCCTCGGTG ATATGGGAAA GAGAACTGAG TATTTGCCCT ATGACTGAGC 120
TTTCTATAGG AATTTTATTA AAGAATGTTT AATTNGTTG TCCTNCTNAA TGTTCCTCAGT 180
CAAATAAATG AGTGAGCTGG TTTCGGCTGC TCTTGGN 217

SEQ ID NO:240

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00257

SEQUENCE DESCRIPTION:

GATCCCATGG ACATTTGGGG AAAGGGCTCC TTGGGCTGCT GGTGAACCTC TGTGGCCACC 60
ACCTCCTGCT CCTGACCTCC CTGGGAGGTG CTATCAGTCT GTCCTGGCCT TTCAGTTTTA 120
TAAGTNGNTT CCAGCCCCAG TGTCTGACT TCTNCTGCAN AATAGGAGGG AGGCCTCCTT 180
TTNGGANGGN NGTACTTTGG GNGATAGTGN GGCCTN 216

SEQ ID NO:241

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00258

SEQUENCE DESCRIPTION:

GATCTTTTAA GTTTCCTTCC CTACCCAGTC CCCATTTTCT GGTAAGGTTT CTAGGAGGTC 60
TGTTAGGTGT ACATCCTGCA GCTTATTGGC TAAAATGTA CTCTCCTTTT ATNTGGTCTC 120
TTTGGGGCCG ATNNGNGAA AGCGAAATCA NTAGTGCAAC TGTTTTGATA CTGAATATTG 180
ACAAGTGTCT NTTTNAATA AAGACCCANT CCCTTCCAAA 220

SEQ ID NO:242

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00259

SEQUENCE DESCRIPTION:

GATCACTAAT CAATAATCTG ATATTTAACA AAATATGGAC AGGCCACTTA TGCTCAGTTT 60

TACCTTAGTT ATTCCTTGGT ATCCACAGGC CCAAGTCCCT TTAAATAAAA TACCCTCATA 120
TTTCCATATA ATCTACATAC ATTCTCCCAT ATACTTTAAA TCATCTCTAG ATTACTNATA 180
ATGTCTAATN CAAAATAAAT GCTATGTAAA TGTAATTATT AAA 223

SEQ ID NO:243

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00260

SEQUENCE DESCRIPTION:

GATCAACTTA ATTCCTTTTC TTTATCTTCC NTCCCTCACT TCCCTTTTCT CCCACCCTCT 60
TTTCCAAGCT GTTTCGCTTT GCAATATATT ACTGNNTAAT NAGTTGCAGG ATAATGCAGT 120
CATAACTTGT TTTCTCCNAA GTATTTGAGT TCAAAACGCC NGTATCTAAA GAAATACGGT 180
TGGGGTCATT AATAAAGAAA ATCTTTCTAT CTAAAA 216

SEQ ID NO:244

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00261

SEQUENCE DESCRIPTION:

GATCTCAGAA CAATCAGATG CAAAGCTGAA AGAGATTGTA ACAAATTTCT NTGGCTGGAT 60
TTGAAGCTTA AACTCCTGTG GATTCACATC ANATAACAGT TCAGTTTTGT CATTGTTCTA 120
GTAAATAGT TCCATTTGTA AAAGGGTTAC TCTCATACTC CTTATGTACA GAAATCACAT 180
GAAAAATAAA GGTTCATAA TGCATAGTTA AA 212

SEQ ID NO:245

LENGTH:221

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00262

SEQUENCE DESCRIPTION:

GATCCATCTG CCTTTGTGGC TGCTGCCCCT GTGGCTGCTG CCACCAACAG CTGCTCCTGC 60
TGCTGCTGCA GCCCAGCTAA GGTGAAGCC AAGAAAGAGT CGGAGGAGTC GGACGAGGAT 120
ATGGGATTTG GTCTCTTTGA CTAATCACCA AAAAGCAACC AACTTAGCCA GTTTTATTTG 180
CAAAACAAGG AAATAAAGGC TTACTTCTTT AAAAAGTCAA A 221

SEQ ID NO:246

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00263

SEQUENCE DESCRIPTION:

GATCCCATTTG GAAGGAATGC TCTACCTCAC AGAACTCTGA ACCCTACAGA AATATGGGCC 60
TGCTGCCATT TCCTGAAGAC CGGGGCATCG GGGTGGGGTG ATAAAGGATA CAACCTGCAC 120

AGGGGGAAGT TATTAAAGAG GCTGCAAAGT CCAGCCACCC TGAAGATACT CCCCAGTGCT 180
CCCCTCCTGC TAAAGAACCA GTTACCCCAG GAAA 214

SEQ ID NO:247

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00264

SEQUENCE DESCRIPTION:

GATCCTCAAC TATTGAAAAT NATGGACTGG TGGCCCTGGT ACAGAACCAT GACTGGCTGC 60
TGAATTCTGA AAACCAGGAC TTGGTTCAAC ATTTAAATTT GATAGTTGCC CTGATTCCCA 120
TTTTGGGTTT GTGAAAAGTG TATGTATTTA AATTGCTGT AAAACATAAT CACTAATAAT 180
ATGCAATAAA TATTCCTTG AAGGGAAA 208

SEQ ID NO:248

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00265

SEQUENCE DESCRIPTION:

GATCTGTGGG AGGAATGGCA AGAGAAGCAA CCGGACCCTG AGAGAAGAGT GTTAAGGAAC 60
CTGCGCATGT GGTTAGCTTG ACCTTCTGT TGGGCATGAC ATGGGGTTTT GCATTCTTTG 120
CCTGGGGACC NTTAAATATC CCCTTCATGT ACCTCTTCTC CATCTCCAN TTCATTACAA 180
GGTAAGATAA ATTGTACATG AATAGTCN 208

SEQ ID NO:249

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00266

SEQUENCE DESCRIPTION:

GATCAAATAT CACTAAATAC TTAAATTGT TTTACTTAAG AGTCTAATCT GGGAAGTTTT 60
CAAATCATAC TATTAATGTG TAATCTAAGC TCTTCAGATG TATCCATGAA TAATCCTGGA 120
ACAATATTGC TTGTATTCCT GTCATAGAAC AGGTTTTGTA ATCTTTAAAA GAAATGAAAA 180
TTTATATAAT AAAGTTTCAA A 201

SEQ ID NO:250

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00267

SEQUENCE DESCRIPTION:

GATCACCTTG GTGTTCTTG TTTGGAAGAT TATTCCTCT GAATTTCTGG GCTTGGTCTT 60
CCAGTTGGCA TTGCCTGAA GTTGATTGA AACAATTTAN TGAAAATATT AAATATTTGG 120
TTTCAAAGG CAGATTTATC TTCTCCCAAC ATTCTGTTAT TTCTGATACT TTTGAAAAAC 180

TAATAAAAAAT TAATAAAAGA CATGAACTAA A

211

SEQ ID NO:251

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00268

SEQUENCE DESCRIPTION:

GATCCAAGAA AACGCCTCAC TGCCTTAACC TTAAGTGTTC TTCCTGGCGC TAAAAAGAGC 60
TGTATTTTTT AAAGTGTCTGG GGC AAACAAA GNANCCCCAA AAGAGTTGAT GTGTGTTTAA 120
AAAGNAAAAA CCAATGAGG AACAATTGGA GATTTTATG CAGAACTAA ATAATCCTTA 180
ATAAATAAAT CTCTATTTTG GAATCAAA 208

SEQ ID NO:252

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00269

SEQUENCE DESCRIPTION:

GATCTTCTAA AAAAGGAACA GAAAATGGTG TGAATGGAAC ATTAAGTCA AATGTAGCAG 60
ACTCTCCCCG GAATAAAAAA GAGAAATCTT CATAATGAAT TATAANCTAA TTGATTAATG 120
TCCCCAAAGA AATCTGCTTT CTACTATATC TTTCAGCATT AGAGATTTTC CTGTTCTNGA 180
AAATNCAGTC TGTGCTCTTT GATTN 205

SEQ ID NO:253

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00270

SEQUENCE DESCRIPTION:

GATCTAGGCA AAGAAGAATA CAAATNAAAC CCCNTTCTTT CTCGTTTCCN GTCCAACAAC 60
TCTGTAGAGC TCTCTGCACC CGTTACCCCT TTCCACCTTT TGTATTTAAT TTAAAGTCA 120
NGTGTACNTG CAAGGAATGC TGGATGCAAG ATAGATACTA TATTAAGTCT TACTGTTATT 180
TAAGATGTAA TAAAGCAGTT TGACATGAGA AA 212

SEQ ID NO:254

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00271

SEQUENCE DESCRIPTION:

GATCTAAGAT GATTATTTTG TAAAGACTT TCTAGTGTAC AAGACACCAT TGTGTCCAAC 60
TGTATATAGC TGCCAATTAG TTTTCTTTGT TTTTACTTTG TCCTTTGCTA TCTGTGTTAT 120
GACTCAATGT GGATTTGTTT ATACACATTT TATTTGTATC ATTTTCATGT AAACCTCAAA 180
TAAATGCTTC CTTATGTGAA AAAACAAA 209

00362

SEQ ID NO:255
LENGTH:197
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00272
SEQUENCE DESCRIPTION:
GATCTGCCAG CAGTGTCTT GCAATATGAG GAAGACAGTT ACAGCCACAT TATGGCTCTC 60
ATTGAACAGT ACGCAGCACC CCTGCCCCCA GCCGTCTTTC TGGGGCTTGC GCGCAAAATC 120
TACAAGCGGA GAAAGTGACC TAGAGATTGC AAGGGCGGGG AGAGGAGGCT CTCAATAAAT 180
AATCGTGTA CCTTAA 197

SEQ ID NO:256
LENGTH:196
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00273
SEQUENCE DESCRIPTION:
GATCTATCAC CTGTAATCAT AACTGGCTTC TGCTTGTAAT CCACACAACA CCAGGACTTA 60
AGACAAATGG GACTNATGTC ATCTTGAGCT CTTCAATTTAT NTTAACTGTA ATTTATTTGG 120
AGTGGAGGCA TTGTTTTNAA GAAAAACATG TCATGTAGGT TGTCTAAAAA TAAAATGCAT 180
TTAAACTCAT TTGAAA 196

SEQ ID NO:257
LENGTH:196
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00274
SEQUENCE DESCRIPTION:
GATCTCACCA GGAGAAATGA ATATGTGAGG TGATGGATGT AACTAGCTTG ATTGTGGTAA 60
TCAATTTTCGC AATGTGTACA TATATCAAAA CATCACATTG TACAAAATAC ATACAGTTTT 120
TGTCAATTTA AAGATATCAG AATTCTAGAA TATGATAAAG TTGTGTTTTT AAGCAAGTAA 180
AGATAGNTTA CTAAA 196

SEQ ID NO:258
LENGTH:197
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00275
SEQUENCE DESCRIPTION:
GATCAGATTT TNCATTTT N AATGTTCCGT GTTTTCTTAA GTAGCATGTA TGACATTTAT 60
AATNTTAAAA AATNTTTTAA AATATGTGTA TGATACATAT TTTCNATTGT CTTAGGGCAG 120
GCTTTTGGAA ATNTCAGCCT GTAGCCAAAT GCAAGATTTT CTCCATCCTT TAATAAAAAG 180
CACACTGAGA AATCCTN 197

SEQ ID NO:259

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00276

SEQUENCE DESCRIPTION:

GATCTCTGTC TTGAGTTTCT CCTTCCCAT CAGCTGAAGC ACTCTTCAGA GACTACGTCC 60
ACAGACACTG ATGCTGAGGC CTCCCTGGAG GAAGGAGGGT TAGGGGTGCC TATCCTCAAG 120
TATTGGAAGA GCAGAATTGA GGGAGAGACC TTTCTTCCTT GTTGAGGGTG AAAAATAAAT 180
ANGAATTACA TGTCTAAA 199

SEQ ID NO:260

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00277

SEQUENCE DESCRIPTION:

GATCAAGAAG GCTGGAACGG AACTGGTTAA CTCTTGAGC TATTCGTGG AACTTGAAC 60
ACAGCCTGCC ACCCAGTGAA GTGTCCAGAC CATTGTCTTC CAACCCAGC TGGCCTCTAG 120
AACACCCACT GGCCAGTCCT AGAGCTCCTG TCCCTACCCA CTCTTGCTA CAATAAATGC 180
TGAATGAATC CNNNA 197

SEQ ID NO:261

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00278

SEQUENCE DESCRIPTION:

GATCTGAGTC AGTCGGAATT TGTGAAACAG GGTAGCAAAC AAGATATTTT ACTTCCATGT 60
ATACAATAAT TTTTAAAN NNTGCAATTT GCGTTGCAGC AATCAGTGTT AAATCATTTG 120
CATAAGATTT AACAGCATTT TTTATAATGA ATGTAAACAT TTAACTTAA TGGTACTTAA 180
AATAATTTAA AAGGN 195

SEQ ID NO:262

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00279

SEQUENCE DESCRIPTION:

GATCTAGTGT AATGGAAGAC CTTTGAGAAC CTGGGTGTAT TAACTTTGTG TATATAGTGT 60
AAATATCCCC ACTGTACTGT TAGAGGCCAA CAATTCTAGT ATGGCTTGTT GGCAAAGAGT 120
GCTACACCGT TTCAATGAAA CAATGTATGT TTGTTTTAAC TGAATAAAA TAAATACATG 180
CTTAATCCTG AAA 193

SEQ ID NO:263

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00280

SEQUENCE DESCRIPTION:

GATCCCTGGG ACCAACCGCA TCCTCAGCTT CTTCCCCGAG AAATGCTGGA GCAGGCTGTT 60
CAGACCGACG TTGCCATCAA AACACATACA CCCAGAAAGA AACAACAGAA ACCAAAATC 120
ACAAGGCGCA TGATTACTTG TTTTATATTT CATGTTGGGT TTTCCCTCCC ACTATTAAAC 180
AGTCTGTTTC CGTAAA 196

SEQ ID NO:264

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00281

SEQUENCE DESCRIPTION:

GATCTGTAA AAAAGAAATC TGTTTCAACA GATGACCGTG TACAATACCG TGTGGTGAAA 60
ATGAATTCAG ACTTATTAAG TGATGAAGTT GTTAAATCTN CTCAGTGTCT ATTTATCAGC 120
ACAATACACA CAGGAGANCT GTTGATGGCA TATTGAATAG ATTNCTCTGA ATAANTTGCT 180
CTGGAAACCA AA 192

SEQ ID NO:265

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00282

SEQUENCE DESCRIPTION:

GATCCTCGTC TTACAGCGAA TGGTTTCAAG ATAAAATTGA TACCAGGAGT TTCAATTACT 60
GAAAATTACT TGGAAATAGA AGGAATGGCT AATTGTNTCC CATTCTATGG AGTAGCAGAT 120
TTAAAAGAAA TNCTTAATGC TATATTAANC AGAAATGCAA AGGNNGTSTA TGANTGTNGA 180
CCTCGCANN 189

SEQ ID NO:266

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00283

SEQUENCE DESCRIPTION:

GATCTTTTGT ACTTTAGGAC ATTAAATTGT ACAACTTTTG TATATATAAA AGCTTAGGAA 60
CTTTCTGTTT AGCAGGAAGG CAACACATTC CTACACTTTT AATGTATATG TTTGTTATAA 120
TGTCCATGTA AACATGCCCT ATGTTTGTGC CTTTAAATTA GTTTGTCTCA ATAAACAAAA 180
TGTAGAGN 188

SEQ ID NO:267

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00284

SEQUENCE DESCRIPTION:

GATCCTGAGA ACTTGAATT CCTTGTAAC GGAGCTCGGA GCTGCACCGA GGGCAACCAG 60
GACAGCTGTG TGTGCAGACC TCATGTGTTG GGTTCCTCTCC CCTCCTTCCT GTTCCTCTTA 120
TATACCAGTT TATCCCCATT CTTTTTTTTT TCTTACTCCA AAATAAATCA NGGCTGCAAT 180
GCAGCTGGTG CTG TTCAGAT TCTAAA 206

SEQ ID NO:268

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00285

SEQUENCE DESCRIPTION:

GATCAGAAAA AGAAAGAAGC CAAAGAGAAA GGTACCTGGG TTCAACTAAA GCGCCANCGT 60
GCTCCACCCA GAGAAGCACA CTTTGTGAGA ACCAATGGGA AGGAGCCTGA GCTGCTGGAA 120
CCTATTCCCT ATGAATTCAT GGCATAATAG GTGTAAAAA AAAAANTAAA GGGCCCTCTG 180
GGGCTACAAA 190

SEQ ID NO:269

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00286

SEQUENCE DESCRIPTION:

GATCAAGATA TAAAAATNTC GGATTTATCT TTCCCCATAT CCAAGTACCA ATNCTGTTGT 60
AAACAACGTG TATAGTGCCT AAAATTGTAT GAAAATCCTT TTAACCATT TAACCTAGAT 120
GTTTAACAAA TCTAATCTCT TATTCTAATA AATATACTAT GAAATAAAAA AAANNGNTTG 180
AAAGCTAAA 189

SEQ ID NO:270

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00287

SEQUENCE DESCRIPTION:

GATCTTGTGT ATTGAGCTTA TTGTTGAAAG GGATTTTGA AGGACAGAAC AATTACTGCA 60
TGATGAATCT TCCTNTCTCT GCCTTCTGAG CACCGNCTTT AATTTCCATA TCTTCAAGTC 120
TTGAAGAAGT TGATGTAAAT TGAAGAATC ACTTGTCTGG TTGAAATAAA GCCTGTTTCT 180
GTTGTGAAA 189

SEQ ID NO:271

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00288

SEQUENCE DESCRIPTION:

GATCTGATTT GCTAGTTCTT CCTTGTGAGA GTTATAAACT GAGAGTGACG TCACTTCAGC 60
CAGAACATAT TCTCCATACT CTGCATATAA TTTGTGGCTG CAGAATATTG TAATTTGTTG 120
CACACTATGT AACAAAACAA CTGAAGATAT GTTAAATAAA TATTGTACTT ATTGGAAGTA 180
ATATCN 186

SEQ ID NO:272

LENGTH:185

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00289

SEQUENCE DESCRIPTION:

GATCTAAAAT GTCAGCATCA TGCAAAGTGC ACGATATATA GTGAATTTNG CTCTAAAAGA 60
GCATGAACAA GTCTTTCTAA TGTTTTGTAC AGTGCCTGGC ACTCTGTGGG TGCTCAATAA 120
ATGGATAGGA GTTTCATTT GAAGGATATT TGAATTTTAA AAATAAAGTG TTTTATTCCC 180
NTAAA 185

SEQ ID NO:273

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00290

SEQUENCE DESCRIPTION:

GATCTGGTCA CTGTGGTTCC TGCATGAAGA CAGTGGCTGG CGGTGCCTGG ACGTACAATA 60
CCACTTCCGC TGTCACGGTA AAGTCCGCCA TCAGAAGACT GAAGGAGTTG AAAGACCAGT 120
AGACGCTCCT CTACTCTTTG AGACATCACT GGCCTATAAT AAATGGGTAA ATTTATGTAA 180
CAAA 184

SEQ ID NO:274

LENGTH:185

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00291

SEQUENCE DESCRIPTION:

GATCTGATTT GCTAGTTCTT CCTTGTAGAG TTATAAATGG AAANATTACA CTATCTGATT 60
AATAGTTTCT TNATACTCTG CATATAATTT NTGGCTGCAG AATATTGTAA TTTGTTGCAC 120
ACTATGTAAC AAAACAACTG AAGATATGTT TAATNNATAT TGTACTTATT GGAAGTAATA 180
TCAAA 185

SEQ ID NO:275

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00292

SEQUENCE DESCRIPTION:

GATCAAAGAC ATCCTCATCC AGTATGACCG GACCCTGCTG GTAGCTGACC CTCGTCGCTG 60
CGAGTCCAAA AAGTTTGGAG GCCCTGGTGC CCGCGCTCGC TACCAGAAAT CCTACCGATA 120
AGCCCATCGT GACTCAAAAC TCACTTGTAT AATAACAGT TTTTGAGGGA TTTTAAAGTT 180
TCAAGAAA 188

SEQ ID NO:276

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00293

SEQUENCE DESCRIPTION:

GATCGGGNTA CTACAAAGTT CTGGGAAAGG GAAAGCTCCC AAAGCAGCCT NGTCATCGTG 60
AAGGCCAAAT NCTTCAGCAG AAGAGCTGAG GAGAAGATTA AGAGTGTTGG GGGGGCCTGT 120
NTCCTGGTGG CTTGAAGCCA CATGGAGGGN GTTTCATTAA ATGCTAACTA CTTTNCCTA 180
AA 182

SEQ ID NO:277

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00294

SEQUENCE DESCRIPTION:

GATCCAGCCA GAGGATGCCA CGCCAGCCCA GCGCTACCAG GCTGCCCCAAG GGGGGCGGGC 60
CTGGGAAGAG CCCTACACGG GGCAGCACCT AGGATGGGGC AGAGACTTGT TGCATCTTTG 120
TCCCCAGCAA AGGCTACATG TTACCTCCTT CAATTGATAA TAAACCTTTC TGAGATGCAG 180
AGGGTCCAGG TCAAA 195

SEQ ID NO:278

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00295

SEQUENCE DESCRIPTION:

GATCCCATTA ACTCGATGCT GAGTATCTAC ATGGATACAT TAAATATATT TATGCGAGTT 60
GCAACTATGC TGGCAACTGG AGGCAACAGA AAGAAATNAA GTGACTCAGC TTCTGGCTTC 120
TCTGCTACAT CAAATATCTT GTTTAATGGG GCAGATATGC ATTAAATAGT TTGTACAAGC 180
AGCTTTCGTT GAAGTTTAGA AGATAAGAAA CATGTCATCA TATTTAAATG TTCCGGTAAT 240
GTGATGCCCT AGNTCTGCCT TTTTCTGAG AGAATAAATG CAGTAATCCT CTCCCCAAAA 300
AAAAAAAAAN NNNTNNNTNN NNNTNNN 327

SEQ ID NO:279

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00296

SEQUENCE DESCRIPTION:

GATCCAAATC CTCATCTTAC TTTCCCGACC TTAAGGATGT AGCTGCTGCT TGTCTGTTC 60
AAGTTGCTGG AGCAGGGGTC ATGTGAGGCC AGGCCTGTAG CTCCTACCTG GGGCCTATTT 120
CTACTTTCAT TTTGTATTTC TGGTCTGTGA AAATGATTTA ATAAAGGGAA CTGACTTTGG 180
AAA 183

SEQ ID NO:280

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00297

SEQUENCE DESCRIPTION:

GATCAAAGTG GCTGCAGCAG AGTTAGCTGT CTAGCGCCTA GCAAGGTGCC TTTGTACCTC 60
AGGTGTTTTA GGTGTGAGAT GTTTCAGTGA ACCAAAGTTC TGATACCTTG TTTACATGTT 120
TGTTTTTATG GCATTCTAT CTATTGTGGC TTTACCAAAA AATAAAATGT CCCTACCAGN 180

SEQ ID NO:281

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00298

SEQUENCE DESCRIPTION:

GATCACATGA TTTTGTTCT CAGTTCTATT AATGTTCTTG GATTCTGTTT AATGTTCTGT 60
TCACATTGCA GAAAAAGCAT TTGACAAAAT AATTTAGTA GCTGCTGAAA AAGCATTGTA 120
TAAAATTCAG CATACCTTTA TGATACAAAA AACCTTCAAT AACTGGGTA TATATGNACN 180

SEQ ID NO:282

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00299

SEQUENCE DESCRIPTION:

GATCTTGAAT TATTTATAAA CTGGAAAGTG GTTTGATTAT TGTGAGTCAA AACTCTAAGT 60
GGTTAAAAAT TAGTATGAAT TTTTAGCTT CTTAATGAAT ATGGATTAA AACTCTCCAG 120
TTCTTATTTT ATGAAATGAC TTGCCTTTCT GGTAATACAA TGCTGATTTT TTAGTAAA 178

SEQ ID NO:283

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00300

SEQUENCE DESCRIPTION:

GATCCCAAAT ATGAAGTCAT CGAAAAACCC CAGGCCTGAA GAAATAAAGT AAAAATNAAT 60

CTGGTAATTT GTCACGGATT AGTTGTACAA CTAGTTAGAA GTTTCAGAAT AAACATGCAT 120
TTCATAACTG TCAAATGTTT TTTTAATTCT GAGTCCAAAT AAATTATTTG GTGATGTTGA 180
AA 182

SEQ ID NO:284

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00301

SEQUENCE DESCRIPTION:

GATCTCTGAG TGAGAGGGAA ANAGGTCAGA TTTATACAAC TGAGCGCCAG AGGGGAAAAAT 60
GCACCTTGTT GGAGTGAGAA ATGTTCTGAA ACTGAATTAC TTCTTGACA GCTGAGATAG 120
CTTCTCTGA ACTATTATTA AATAAGTGAA TACAAAGGCC CTATGATGGG AAATCCAGN 179

SEQ ID NO:285

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00302

SEQUENCE DESCRIPTION:

GATCACCTGT TTGAAACCAT CTCCCAAGCC ATGCTGAATG CTGTGGACCG GGATGCAGTN 60
TCAGGCATGG GAGTCATTGT CCACATCATC GAGAAGGACA AAATCACCAC CAGGACACTG 120
AAGGCCCGAA TGGACTAACC CTGTTCCAG AGNCCACTTT TTTTCTNTT TTTGANATAA 180
AATAGCCTGT CTTTCAANAA A 201

SEQ ID NO:286

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00303

SEQUENCE DESCRIPTION:

GATCGGAGAT GCTTTGTAAT CTA CTGTCCA GCTGGAAACA GTCATGTTA CGCGGAAAAA 60
ACTACAAGTA ATGTTCAAAT CTA TTTTGGG TCATTTTAT GTACCTTTGG GTTCAGGCAT 120
TATTTGGGGG GTTTTGTTTC CAAAGGAAC AAATAAAGTC ATATTGCTTA TAGAAA 176

SEQ ID NO:287

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00304

SEQUENCE DESCRIPTION:

GATCTTTGCT GGGAAACAGC TGTGAAGATG GACGCACCCT GTCTGACTAC AACATCCAGA 60
AAGAGTCCAC TCTGCACTTG GTCCTGCGCT TGAGGGGGGG TGTCTAAGTT TCCCCTTTTA 120
AGGTTTCAAC AAATTTTATT GCACTTTCCT TTCAATAAAG TTGTTGCATT CCCAAA 176

00370

SEQ ID NO:288

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00305

SEQUENCE DESCRIPTION:

GATCCGCAAG ACCAAGTACC GCCCCGACCT GCGCATGGCA GCCATCCGCA GGCCAGCNTC 60
ATCCTGCGCA NCAGAAGCCT GTAATNGTGA AGAGGAAGCG GACCCGACCC ACCAAGAGCT 120
CCTGAGCCCC CTGCCCCCAG AGCAATAAAG TCAGCTGGCT TTCTNACCTG AAGAAA 176

SEQ ID NO:289

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00306

SEQUENCE DESCRIPTION:

GATCTCAAAA CACAGTGAGA GGTCTGAAGG CTGGCTTCTG AAGAATCCCT GATGTCTTAT 60
TGGAACAACC ACTGAGCTAC GGAGAGCTCT GCTGTGATGG GCTAGGCACT TTATATCTGT 120
GTGAATACAG ATTTATAAAA CAGGTTAATA AACTTATCCA AGGTCACATT TCAAA 175

SEQ ID NO:290

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00307

SEQUENCE DESCRIPTION:

GATCTGAATT CTTTATGTAT ATTTGTAGCT ATATTTTATA CAAAGTGCTT TAAGTGTGGA 60
GAGTCAATTA AACACCTTTA CTCTTAGAAA TACGGATTCTG GCAGCCTTCA GTGAATATTG 120
GTTTCTCTTT GGTATGTCAA TAAAAGTTTA TCCGTATGTC AGAAA 165

SEQ ID NO:291

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00308

SEQUENCE DESCRIPTION:

GATCATTCCCT TCTGTAGCTC AGGAGAGCAC CCCTCCACCC CATTTGCTCG CAGTATCCTA 60
GAATCTTTGT GCTCTCGCTG CAGTTCCCTT TGGGTTCCAT GTTTTCCTTG TTCCCTNCCA 120
TGCTAGCTG GNTTGCAGAG TTAAGTTTAT GATTATGAAA TAAAAACTA ACTGACAATT 180
NTCAAA 186

SEQ ID NO:292

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00309

SEQUENCE DESCRIPTION:

GATCTTGTAG AAAATTTTGA TGAGGCATCA AAGAATGAAG CTAACATAAA GTTTGGTTTT 60
TGGAAGCTGG CATGGACTAG ATTTAACAAA TCAGCTATGT GGTCCAAAAG TTTACAGAC 120
ATGGAGAACA TCACCTGTTA CTAGTTCAGT AATATAAATA TTTGTATAT TAATN 175

SEQ ID NO:293

LENGTH:406

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00310

SEQUENCE DESCRIPTION:

GATCAGATTA CCAGGAACAT CAGGAGTGGA TTCCTGCCCC AACCAAACCG CATTCGTGTG 60
GATTTTTTTA TTCAACTTAA TTGGCTATTC CAAAGATTTT TTTTTCCTA TTTTGACGA 120
TTGGNGCCCT TAAGATGCAC GATGGAATTG TGTTTTNCGT TTTTNGGTAA AAGGAGCAAA 180
GCGNGGNCCT GGAGATAAAC GCTGGAGCAA TCTCCTTGGA AGGATTCAGC ACGAGTAGAT 240
GGTAAACATT TAAAGGGGAA AGGGGGGTTT GTTTAAAATA GTAAATCAGT AAGTCACTTC 300
TAAATTTAAA GAAACCAAAA TTGGGAGTTG AAGAATAAGT AGGGTTTCCA ATTGGGCTAT 360
TGCCGNTTTN CTTTGNAAAA ATTAAACCAT TTTTAAAAA CCTAAA 406

SEQ ID NO:294

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00311

SEQUENCE DESCRIPTION:

GATCCCATAG ACCAGAGCCC ACCTTTTNN A TAACTTAGT AAAGTCTNG AGACTAGAAG 60
CAAGATAGTT TGTGACACAT AAGCTTCCCA AAAACTNGAA TAGATTTTNA CTGAATAGTG 120
GTCTATCTGA TGGTATATGT TTCTTAAAGG TCCAANTGTA ATAAAAAAAA TTGAAAAANA 180
GGTCTCAGTG TTTTNAATGC ACTNCATATT TGTNTGCN 218

SEQ ID NO:295

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00312

SEQUENCE DESCRIPTION:

GATCCACCAA GCACGCCTAT NAATACAAAG TAACTATNA TTTTNATTGT GAAATTTTCA 60
TAGATGGAAA ATTGAATATN CTGTCCATTT CATTTTACAA TNATCTTACC ACTTATTTTT 120
GTACCATGTA TTTCAATTGC CTGTTTAGTG AAAAATAAAA ATTAATAAAA CCTAAA 176

SEQ ID NO:296

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00313

SEQUENCE DESCRIPTION:

GATCCCAGCA AGATAATGTC CTGTCTTCTA AGATGTGCAT CAAGCCTGGT ACATACTGAA 60
AACCCTATAA GGTCTGGAT AATTTTGTG TGATTATCA TTGAAGAAAC ATTTATTTTC 120
CAATTGTGTG AAGTTTTTGA CTGTTAATAA AAGAATCTGT CAACCATCTA AA 172

SEQ ID NO:297

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00314

SEQUENCE DESCRIPTION:

GATCGGTGAC ATCGTCAAGA TGGGCGAGTG CCGGCCTCTG AGCAAGACAG TGCCTTCAA 60
CGTGCTCAAG GTCACCAAGG CTGCCGGCAC CAAGAAGCAG TTCCAGAAGT TCTGAGGCTG 120
GACATCGGCC CGCTCCCCAC AATGAAATAA AGTTATTTTC TCATTCCCAG AAA 173

SEQ ID NO:298

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00315

SEQUENCE DESCRIPTION:

GATCGTTTCC AGATGAGAAT TCACAAGCGA CTCATTGACT TGCACAGTCC TTCTGAGATN 60
TGTTAAGCAG ATTACTTCCA TCAGTATTGA GCCAGGAGTT GAGGTGGAAG TCACCATTGC 120
AGATGCTTAA GTCAACTATT TTAATAAATT GATGACCAGT TGTAAAA 167

SEQ ID NO:299

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00316

SEQUENCE DESCRIPTION:

GATCTGGTGG TGGAAGTGGT GGATATGGTA GCAGAAGGTT CTAAAAACAG CAGAAAAGGG 60
TTGAATGAGA ACCCTACTTG CCTAAATNAG GAATGTCTTT CCTACCATCT AAAATACGAA 120
GGTTTCTGGC TGGGTAAGGT TTGTAGTTGA CAGTAAAACC TGATGACACC N 171

SEQ ID NO:300

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00317

SEQUENCE DESCRIPTION:

GATCCGAGTG TGATTTGAAT TCTGTGATAT TTTCACACTG GTAAATGTGA CCTCTATTTT 60
ACTTACTGCT ATAAATAGGT TTATATTATT GATTCACCTA CTGACTTTGC ATTTTCGTTT 120
TTAAAAGGAT GTATAAATTT TTACCTGTTT AAATAAAATT TAATTTCAAA TGATAA 176

SEQ ID NO:301

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00320

SEQUENCE DESCRIPTION:

GATCTTTGTT TTGTGTTTAA CCATAATGGT TGTGTACTGA ACCACTTCAT ATTTGTAATA 60
TATAATATAT ATATATNNGN TNCCCTNAAG ACTCAGCCTC CTGGTTTACC CCCCCGGCCT 120
GGGCATCTNA CCTCCCCAC CCCAGTGTGA TTAAACATCC NGGNACTGN 169

SEQ ID NO:302

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00322

SEQUENCE DESCRIPTION:

GATCTAGCTC TGAATGTATG TTTCCTGACG TTTTACATTT CCACTTTCCT ATTCCATTCA 60
TTAAGCTAGC CAACAATCCA CCATCCTTTA AAGATTGTTC TCATAACTGA AAAAAAACCA 120
CATAATCTAA ATAGAGCAAA GCTACAAGAA ATAAATTTAT TTAAACGCAA GAAA 174

SEQ ID NO:303

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00323

SEQUENCE DESCRIPTION:

GATCCTAGCA TATGTTAAAA TTCAAATTA TGTAAAACAG ATTAACAACA ACAAAGAAAC 60
TGTCTATTTG AGTGAAGTCA TGCTTTCTAT TATAATACT TGGCTTCGGT TATCCATCAA 120
ATGCACACNN ATACTGTTAT CTGATTGTTT ATAATAAAGA ATACTGTACC TNNTAAA 177

SEQ ID NO:304

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00325

SEQUENCE DESCRIPTION:

GATCAGATGG TTTTAGTATT GTGGCAGAAG CGAGAAAAC TGTGTTATTG AAAAAAAAAG 60
AAAAAGAAAG CAAGAAAAAA AGATACTATG GGGTCAAGTG TAACTCCATG GAAATGCCAC 120
GTCTGCTCTT CAGTGAAGAA GCTGGTTTAG AGTCTCACAG AAAACTN 167

SEQ ID NO:305

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00327

SEQUENCE DESCRIPTION:

GATCGCTCAC AATNTTCTCT CCAAGAACCG CAAAGCCATC GTGGAAAGAG CTGCCCAACT 60
GGCCATCANA GTCACCAACC CCAATNCCAG GCTGCGCAGT GAAGAAAATA AGTAGGCAGC 120
TCATGTGCAC ATTTTCTGTT TAAATAAATG TAAAACTGC CATCTGGAAA 170

SEQ ID NO:306

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00328

SEQUENCE DESCRIPTION:

GATCGGGAAT GGTCTGTGTG TTATCAGCTG CGACTGGTTC ACTGCGNCTT AGACAAGCCT 60
CATGGGGACT GGGGATTCTG GCCAGTGTA TTTCTGTCAA CCACGGACGT TTGCCTTCAT 120
GTGTAGAATT TACTGTTGTT ATGCAAATTA TATTTTCAAT TATAAATGAA A 171

SEQ ID NO:307

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00329

SEQUENCE DESCRIPTION:

GATCAGACAG AATAATATTT NCTAGTTATT ATGTGTAAGA TGAGTTGCTA TTTTCCTAAT 60
GCTCATTCTG ATACAACTAT TTTCCGTGTC AAATATCTAC TGTGCCCAAA TGTACTCAAT 120
TTAAATCATT ACTCTGTAAA ATAAATAAGC AGATGATTCT TAAA 164

SEQ ID NO:308

LENGTH:261

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00330

SEQUENCE DESCRIPTION:

GATCCCCGCC CTGGGGTCTG GTCCTCGCCC ATCCTGCAGG GATTGCCAC CGTCTTCCAG 60
ACACCCACC TGAGGGGGGC ACCAGGTTTA GTGCTGCTGC TTCTACTGNT GCACCCGCGC 120
CCTCGGCCGG CCCCCGAGC AGCCTTTGTA CTCTGCTTGC GGAGGGCTGG GAGACCCTCC 180
AGGACATTCC CACNNTCNCC CATGCTGCCA AGTTNNNNCT ATAGCTACAA ATAAAAAAAA 240
ACCTTGTTTT CAAGAAATAA A 261

SEQ ID NO:309

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00331

SEQUENCE DESCRIPTION:

GATCGAGTCA AGATGAGTTA GTGGAGCTGG GCTTGGCCAG GGAGTCTGGG GACAAGGAAG 60

CAGATTTTCC TGATTCTGGC TCTAGCTTCC CTGCCAAGAT TTTGGTTTIN ATTTTTTTAT 120
TTGAACTTTA GTCGTGTAAT AACTCACCA GTGGCAAACC AAA 163

SEQ ID NO:310

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00332

SEQUENCE DESCRIPTION:

GATCATGCTG CTGTGATACT GAGTTTTCTA AACAGCATAA GGAAGACTTG CTCCCCTGTC 60
CTATGAAAGA GTATAGTTTT GGAGGGGAGA AGTGGGACAA AAAAGATGCA GTTTTCCTTT 120
GTATTGGGAA ATGTGAAAAT AAAATTNTCA ACTCTTTCAG TAAA 165

SEQ ID NO:311

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00333

SEQUENCE DESCRIPTION:

GATCTCAGTT TCCTGGCTTT TCCTCCCTCA GCCCCTTCTC ACCCCTTTCG TGTCTGTGT 60
AGTGATTGG TGAGAAATCG TTGCTGCACC CTTCCCCCAG CACCATTAT GAGTCTCAAG 120
TTTTATTATT GCAATAAAAG TGCTTTATGC CGGCTTTTCT CAAA 164

SEQ ID NO:312

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00334

SEQUENCE DESCRIPTION:

GATCATTGAA TGTGAGACCC TTCTAACATG ATTTGAGAAG CTGTACAAGT ATAGGCAGAG 60
TTATTTTCCT GTTTACATT TTTTTTTGTT TTGGGGAAAA AATTGGTAGG TGTCTAATNA 120
CTGTTTACTT CATTGTTATA TTGCAGTAAA AGTTTTAAAN CANCCATTGC ATGTTNGCTT 180
TTGATGTATC CCTTTGNGAA ATTAGCACTT TTGGGGCCAN TGGNGAAATG CAGCATTCAC 240
TCTCCCTGTC TTTTCCCCTT CCCTCAGCAG AAACGTGTTT ATCAGCANGT CGTGAGTCAA 300
ACTGCTGCCT TTAAAAAANC CCACAAANTT GNTNNGN 337

SEQ ID NO:313

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00335

SEQUENCE DESCRIPTION:

GATCCGCCGT CACTGGGGTG GCAATGTCCT GGGTCCTAAG TCTGTGGCTC GTATCGCCAA 60
GCTCGAAAAG GCAAAGGCTA AAGAACTGC CACTAAACTG GGTAAATGT AACTGTGTA 120
GTTTTCTGTA CATAAAAATA ATTGAAATAA TACAAATTTT CCTTCAGCCA GTGAAA 176

SEQ ID NO:314

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00336

SEQUENCE DESCRIPTION:

GATCACCTCT GAGACCCACC TTGCTCATAA AAAAAATGCC CATGTTGGTC CTCTGCCCTG 60
GACCTGTGAC ATTCTGGACT ATTNNTGTGT TTATTTGTGG CCGAGTGTA CAACCATATA 120
ATAAATCACC TCTTCGCTG TTTTAGCTGA AGNATTANGN CATCTTGTCT ATTA 176

SEQ ID NO:315

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00337

SEQUENCE DESCRIPTION:

GATCATATTT AATGAATTAT AGTATAATGC TTGCAGGCCC AGTACAAGCA TATATATNGT 60
GCCTCTTACA GCCTTTGGAA TACATTGTTT CCATTTTSTA AATATCTTCT ATATCCNNNT 120
AGTATTCAAA TTATTAATGC TCATGTACCA AGGTNTTGCT ATAAAAGTTT TGTCTGTATG 180
AATAATGTGG CTTAGTAAA TAATCATTTN TCAACTGTAA ACTNATTCTG AAATAAAGTA 240
AAATNCTAAT TGTTTAAA 258

SEQ ID NO:316

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00338

SEQUENCE DESCRIPTION:

GATCTTGGAC ACTTACAGAT TGAGCTGTAT GAATTCAGCG GGTCTCACTC CAGAGGGTCA 60
GAACGTTTGC TTTAGTTTTT TCATCTGTTT TGTTCCCTTGA GTCAGTGCTG TTGATGATGA 120
GTTGTCTTGA ATAAATNATG TGTTCTTTGC AAA 153

SEQ ID NO:317

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00339

SEQUENCE DESCRIPTION:

GATCAAAGCT AGAAAATGNA GATTCCTTAG CCTGGATTTC CTTCTAACAT GTTATCAAAT 60
CTGGGTATCT TTCCAGGCTT CCCTGACTTG CTTTAGTTTT TAAGATTTGT GTTTTNCNT 120
NTCCACAAGG AATAAATGAG AGGGAATCGA CTGTAAA 157

SEQ ID NO:318

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00340

SEQUENCE DESCRIPTION:

GATCTCCTTA TATAGCAGCC AAAATCAATG AAGCTAAAGA TTTACTAGAA GGTCAAGCTA 60
AAAAATGAAG TAAATGTATG ATGAATTTTA AGTTCGTATT AGTTTATGTA TATGAGTACT 120
AAGNNTTTTA TAATAAAATG CCTCAGAGCT ACAATTTTAA A 161

SEQ ID NO:319

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00341

SEQUENCE DESCRIPTION:

GATCTGAAAA CATGTAGAGA AGATGAGTTG AGGACAGCTT TTCTAAGGCA ATGTNATGTC 60
TTTCCTTTCT NATTTCTNTT TCTCTGCGTT GTTAGTTTTN AAGAGTGGAG GAGCTAGGGG 120
CTCCAGAAAG AATCTTACAC ATGTTTGTAA GACATTGATG TCATAGGGAG CGGGGAGCTG 180
CATTCCCTTC TGGGCTGTGA CTGCTAAATC TCAGTATGAA CAGACCAGGC GGAAAGCTTG 240
GTGGCCAAGC AGTCTGTGTG CTTCCCCGCT GATGGAGAAC GTTGCGTTGT TCACAATAGG 300
GCCTCATGGG TGN 313

SEQ ID NO:320

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00342

SEQUENCE DESCRIPTION:

GATCTTGTTT ACAAGTAATC TGTTGACAGT GCCAATAAAT NATAAAAAAA AAATTAACAT 60
GTCACAATGT AACGGATGAC CATATGCACA ATTCCATGAA TTAAATCTGT TTCCTGTGTT 120
AGTCAGTATT CTAAATAAA ATTTATAATT GAAACATGAA A 161

SEQ ID NO:321

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00343

SEQUENCE DESCRIPTION:

GATCTATTGA NAGCCCTCTC TCNCATTCTG TAATGAGTAC AGCAGAGACC TTCCTGCTTT 60
TAACTGGGGA CTCCAGATTT TCCCCAACT TGCTTCTGTT GAGATTTTTC CCTCACCTTG 120
CCTCTCAGGC ACAATAAATA TAGTTATACC ACTGCCCATC AAA 163

SEQ ID NO:322

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00344

SEQUENCE DESCRIPTION:

GATCATCCTA ACAATGTGGG GCTGTTAGGT TTTACCTTTG ANCTTTCATA GCACTGCAGA 60
AACCTTTAAA AAAAAAATGN TNNATGAATT TTTCCTTTCC TACAGTTGGG TAGGGTAGGG 120
GAAGGNGGNT AAGCTTTTTT TTTNAAATG ACTGAN 156

SEQ ID NO:323

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00346

SEQUENCE DESCRIPTION:

GATCATGCTG CCCTGGGACC CAACTGGTAA GATTGGCCCT AAGAAGCCCC TGCCTGACCA 60
CGTGAGCATT GTGGAACCCA AAGATGAGAT ACTGCCACC ACCCCCATCT CAGAACAGAA 120
GGGTGGGAAG CCAGAGCCGN CTGCCATGCC CCAGCCAGTC CCCACAGCAT AACAGGGTCT 180
CCTTGGCAGC TGTATTCTGG AGTCTGGATG TTGCTCTCTA AAGACCTTTA ATAAAATTTT 240
GTACAAAGGC ACAA 255

SEQ ID NO:324

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00347

SEQUENCE DESCRIPTION:

GATCTCTAGT ATAACACTCA GGCTACTGAG GTATTTTAGA GCAACAAGCT GGGTTACTTT 60
CAGAGCAACC AGCTTGACTG GAACTGAGAG TAAATTGGGA ATGTATGACC AATCTTAGAC 120
CCTGAAAAAT GGCAGAAAAT ACATGGAAAT TTGN 154

SEQ ID NO:325

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00348

SEQUENCE DESCRIPTION:

GATCTAGGGA AGACAACGTA GTCACCCTCG GTGCTTCCTC TGTCTCCTCT TTCTCCCTGG 60
CCTGTGGTTG TCCCCAGCC TCTGCCACCC TCCACCTCCT CGGTCAGCCC CAGCCCCAGG 120
TTGATAAATC TATTGATTGA TTGTGATAGT AAA 153

SEQ ID NO:326

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00349

SEQUENCE DESCRIPTION:

GATCTCTAAT ATTTTAAAGC CCAAGCCCCCT TGGACACTGC AGCTCTTTTC AGTTTTTGCT 60

TATACACAAT TCATTCTTTG CAGCTAATTA AGCCGAAGAA GCCTGGGAAT CAAGTTTGAA 120
ACAAAGATTA ATAAAGTTCT TTGCCTAGTA TAAA 154

SEQ ID NO:327

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00350

SEQUENCE DESCRIPTION:

GATCAAATTC TAATGGAATT GAGCCGTTTT CTTATCCTAA ATGTTTCCTC CCTTTTACA 60
ATCTCTGTCC AGCACCTCTT GGTTAAATAA TGTATGCTGT GAGACATGNA ATTAAAACAG 120
GCCTATGGAA TAAATTATTT TAAAACCAGN AGGTAAAA 158

SEQ ID NO:328

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00351

SEQUENCE DESCRIPTION:

GATCTTAAAG CAGAATGCCN TTNCTTTTT TTGCTTCAGT TGTAAGAAG AGGGAATACA 60
TGATAAAGTA ACTGGTTTGA TTTCTCGTTC ATTGTACACT GCCTCTGAAC ANCTAATTGT 120
TTTAGTTGT CTAAATAAAA TGCCTCTAAA AAAAA 155

SEQ ID NO:329

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00352

SEQUENCE DESCRIPTION:

GATCCAAGAG GAAGAATCCA GCTGCCTATG AAAATAACAA ATNAGCAACG CATCCGGATG 60
ACGGTTCCT GTCTCTGAAA GACCTTCTC TGGAAGAGGA GTCTGCATTG TAGTGTCTCA 120
AAGACACAAT AAACCTCCTA TGGTCTGCAC TGTTGTGATA TAAAA 165

SEQ ID NO:330

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00353

SEQUENCE DESCRIPTION:

GATCTACTTT GTTTGAGCAA AACAGCATTA TTTGTTATGT TAATNATGGT TAATTTCCAT 60
TTTATTGGTT TTATGTTTAT TTTAATTTGT AAATGTTTTA GCATTTATNA TTGTATGTNA 120
NCTATATTTN CCTATTTNAT GTTGATAAA 149

SEQ ID NO:331

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00354

SEQUENCE DESCRIPTION:

GATCAAAATG CTAAACATG ATGATTAAGT GCACACCGTG TGCCATAGAA TGGCACATGT 60
CATTGCCCAC TTCTGTGTAG ACATGGTTCT GGTTAACTA ATATTTGTCT GTGTGCTACT 120
AACAGATTAT AATAAATTGT CATCAGTGAA A 151

SEQ ID NO:332

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00355

SEQUENCE DESCRIPTION:

GATCTTTGTT CTAGGCAGCT GGGAAATAGAC ATGGTACTTA CCTTAGAGTT TTCCAATTTA 60
TCTCAATTTT ATATGGCTTG TGATTCATTT NCTTAATCCA AATATATATA ANCGTGTGTG 120
GTCTNATTCT NCCCCCGCA ANANNAN 147

SEQ ID NO:333

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00356

SEQUENCE DESCRIPTION:

GATCCTTACG GAAAAGGAAC AGATTGTNCC TAAACCAGAN GAGGAGGTTG CCCAGANGAA 60
AAAGATATCC CAGANGAAAC TGAAGAAACA AAAACTTATG GCACGGGAGT AAATTCAGCA 120
TTAAATAAAA TGTAATTAAA AGGAAAAGAA A 151

SEQ ID NO:334

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00357

SEQUENCE DESCRIPTION:

GATCTTTGCA GTAATTTCTA GGAGCTGTTT ATGTTTGGAG GTAATTGGTC CTTTGTCCAT 60
ATATATGAGA TGTAAGTNTT ATTTTCCAGT TTATCTTTT GCTTATTTT TTTGACTTTT 120
TATTGTAAAA TAAAACATCA AACTGCACAG AACAGTTGAA TAGCTTAATG AATAACTACA 180
GTAAAAGCTA TGGTAACCAC TAAA 204

SEQ ID NO:335

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00358

SEQUENCE DESCRIPTION:

GATCCAATTA ACATGTGGGG TTCTTGGTNT GGGTCTGGGG AGCTGAAGGA TTTNATGGAG 60
CTGGTGCTTT GGAGGAATCT TAAGGGAAAG NAGTAGAAGC TCAGGCCTTT AAAGGATTTC 120
ANCTCCTCCT CTCTGTAATT NNTNCN 146

SEQ ID NO:336

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00359

SEQUENCE DESCRIPTION:

GATCGCATCT NTTAAACAGG TACAAGTTGA CATGAGGTTA GTTAAATTGT ACACCATGAT 60
ATTGGTGGTA TTTATGCTGT TAAGTCCAAA CCTTTATCTG TCTGTNATTTC TTAATGTTGA 120
ATAANCTTTG ANTTTTTTCC TTAAAA 146

SEQ ID NO:337

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00360

SEQUENCE DESCRIPTION:

GATCAGTGTT GAAGAAAGTG CAAAAGGAAC TTTTATATAT TTAACAGTGT AGGAAATTGT 60
CTATTCCTGA TATAATTACT GTAGTACTCT TGCTTAAGGC AAGNGTTTCA NATTTACNGT 120
TGAAATAAAC CCAACTCTTC NTGNAAA 147

SEQ ID NO:338

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00361

SEQUENCE DESCRIPTION:

GATCTNGAAA ATNATCATTG AACATATTAA TGGTTATTTT TTTTCTTGG ATTTCCAGAA 60
AAGCCTCTTA ATTTTATGCT TTCTCATCGA AGTAATGTAC CCTTTTTTTC TGAAACTGAA 120
TTAAATACTC ATTTNATCNN NTGNAAA 147

SEQ ID NO:339

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00362

SEQUENCE DESCRIPTION:

GATCAGTTTT TTCACCTGGA AGCATTTGTT TCTACTTTGA TATGACTGTT TTTCGGACAG 60
TTTATTTGTT GAGAGTGTGA CCAAAAGTTA CATGTTTGCA CCTTTCTAGT TGAAAATAAA 120
GTGTATATTT TTCCTATAAA 140

SEQ ID NO:340

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00363

SEQUENCE DESCRIPTION:

GATCTGAACT TTTCATCTGC AGAGGCAAGA AAAATATTTA ACATTGTGAC TTGACTGTGG 60
AAGATGATGG TTGCATGTTT CTAGTTTGTA TATGTTTCCA TCTTTGTAAT AAGATGATTT 120
AATAAATCTC TTAAATACT TAAA 144

SEQ ID NO:341

LENGTH:291

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00364

SEQUENCE DESCRIPTION:

GATCAAAAGC TTATTCATCT GTTTNCCTTT TTCGTTGGTG TAAAGCCAAC ACCCTGTCTA 60
AAAAACATAA ATTTCTTTAA TCATTTTGCC TCTTTTCTCT GTGCTTCAAT TAATAAAAAA 120
TGGAAGAAT CTAATAGAGT GGTACAGCAC TGTTATTTT CAAAGATGTG TTGCTATCCT 180
GAAAATTCTG TAGGTTCTGT GGAAGTTCCA GTGTTCTCTC TTATTCCACT TCGGTAGAGG 240
ATTTCTAGTT TCTTGTGGGC TAATTAAATA AATCATTAAT ACTCTTCTAA A 291

SEQ ID NO:342

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00365

SEQUENCE DESCRIPTION:

GATCTTAAAC CTATGATTCA GTAACCTCTT ACCATATAAA AACGATAATT GCTTTATTTG 60
GAAAAGAATT TAGGAATACT AAGGACAATT ATTTTATAG ACAAAGTAAA AAGACAGATA 120
TTTAAGAGGC ATAACCAAA 139

SEQ ID NO:343

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00366

SEQUENCE DESCRIPTION:

GATCCGTGGC AGGGCTGCTG AGGCCTGTGG GTGGGACACC ANNTGCGAAA CCCTCATCCA 60
GTTTCTCTC CATCTCTTTT CTTGTACAA TCCCATTTC TATTACCATT CTNTGCAATA 120
AACTCAAATC ACATGTCTGC AAA 143

SEQ ID NO:344

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00367

SEQUENCE DESCRIPTION:

GATCCAGTGA CATTGTGAGT GAAGACGCAA ACAGGTTTTG ACTCCTGCAT GGCCGATGAC 60
CTTTTCTGTA GGCTTACCAG AAAAGTACAT NCAACAGTTC TTTGAGGTTT AACTAGAGCA 120
GCAAATAAAG CAAAAGTTN 139

SEQ ID NO:345

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00368

SEQUENCE DESCRIPTION:

GATCAAGAAT CTTTGTGAA ATTATAGAAA TTTACTATGT AAATGCTTGA TGGAATTTTT 60
TCCTGCTAGT GTAGCTTCTG AAAGGTGCTT TCTCCATTTA TTTAAACTA CCCATGCAAT 120
TAAAAGGTAC AATGCAGAAA 140

SEQ ID NO:346

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00369

SEQUENCE DESCRIPTION:

GATCCAGCTT GCCAGGGACT TAGGTTTATC CTGTTTTGTT TGCTACTGGT TACAAATTCT 60
ATTTTCTGTA CAATTAGTCA GACTAAAGTT TTCACTGTGT TTGTTTGGCA AAACAAATTA 120
AACAAAAAGT AAGGTTTTTA 142

SEQ ID NO:347

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00370

SEQUENCE DESCRIPTION:

GATCTCCGTN AAACACATTT TTNTTCTTAG TCTATCTCTT GTACAAACGA TGTGCTTTGA 60
AGATGTTAGT GTATAACAAT TGATGTTTGT TTTCTTTTGG ATTTTAAACA GAGAAAAAAT 120
AAAAGGGGGT AATAGCTCCT TTTTCTTCT TTCAAA 156

SEQ ID NO:348

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00372

SEQUENCE DESCRIPTION:

GATCTACAAT NGGAGTTGTG AGTNGCAATC TTACATGGCT ACGNCTTTCG TTTGATAGCC 60
AGTCATGGTN ACCACATGAG AACCATATGC TGAGATGCAA TAAAGTAAGA GAATGTTTTT 120
TGACAAAAAA ATCTN 135

SEQ ID NO:349

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00373

SEQUENCE DESCRIPTION:

GATCTTAAGC GTGTCTTGAG TTCCATGCAA ATTCAATTCT GTTGATAATG TGTCCATAAT 60
CAAATCATCA TCTTGCAATG CAAGGGCTAC CCCATAATTA TCAGACATTA AAATAGTTTA 120
TTTCTTTTTC AAA 133

SEQ ID NO:350

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00374

SEQUENCE DESCRIPTION:

GATCTCGTTC CGCCGGTTCC CTTGGCCGC CAGTTCCGTT CTCCTCACGG GCCGAACGGA 60
ACAAGGGGTC CAGCTTGCGG GGGACCCTCC CCAGCCCATT CCTGCTGTCA AACAAACAAA 120
ACCTTGCAAA GCGCAAA 137

SEQ ID NO:351

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00375

SEQUENCE DESCRIPTION:

GATCAAGCGT GCTTTCCTTA TCCGAGGAGC AGAAAATCGT TGTGAAAGTG TTGAAGGCAC 60
AAGCACAGAG TCAGAAAGCT AAATAAAAAA ATGAACTTT TTTGAGTAAT AAAAATGAAA 120
AGACGCTGTA AA 132

SEQ ID NO:352

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00376

SEQUENCE DESCRIPTION:

GATCAAGTTC CCGCTGCCCC ACCGGGTNCT GCGCCGTCAG CACAAGCCAC GNTTCACCAC 60
CAAGAGGCC AACACCTTCT TCTAGGTGCA GGGCCCTCTT CCGNGTTTTG CCCCATAAA 120
ACTCANGAAC GNCCCGGTTA AA 142

SEQ ID NO:353

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00377

SEQUENCE DESCRIPTION:

GATCAAGGAT ATTTGAAATC ACTACTGTGT TTTNCTGCGT ATCTGGGGCG GGGGCAGGTT 60
GGGGGGCACA AAGTTAACAT ATTCTTGGTT AACCATGGTT AAATATGCTA TTTTAATAAA 120
AATATTGAAA CTCACCAGTA AA 142

SEQ ID NO:354

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00378

SEQUENCE DESCRIPTION:

GATCTCTAAT GAAAAAGGGA TGTCTTTTGT TTTATAGTCA TGTGGCAAGA TGAGAGTAAA 60
ACCAGAGAGC AAACCTCTAT AAGTNTTGAG TATATGTATA CATTTGAAAT AAACCAGAAA 120
TTTGTTACCT TAAA 134

SEQ ID NO:355

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00379

SEQUENCE DESCRIPTION:

GATCAGCTCT GAGGTGCACT TCTTCACATA CTGTACATAC CTGTGACCAC TCTTGGGAGT 60
GCTGCAGTCT TTAATCATGC TGTTAAACT GTGTGGCAC AAGTTCTCTT GTCCAAATAA 120
AATTATTAA TN 132

SEQ ID NO:356

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00380

SEQUENCE DESCRIPTION:

GATCNGGGCT GGATTGACGG ATGTCACCCC CNATCCCCTC GTGACATGCA CGTCNGCAGG 60
AATGGGGGGT CTGCNGTGGT CGCCNGTCGT GTGAACAAGA TTCCGTCAA AATATTTCTG 120
TTAATAAATT GCCTTCATGT AAA 143

SEQ ID NO:357

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00381

SEQUENCE DESCRIPTION:

GATCTAGAAG ATGATGTTCA AACTATGAAA CTGCTTGTGA ATTGTGAAAT GACTTTGTTT 60
TTTGCTTGTT TTTTNAATT TCCTATAATG NACATACTAA CTTTAAAAA ATAAAGGTTA 120
TTTAAAAAGC CTGAAA 136

SEQ ID NO:358

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00382

SEQUENCE DESCRIPTION:

GATCTTCTAT GTAACAGTTG AAATNTGGAA GTGACGTCAC TTACCTGTCT AACGTGGTGT 60
GGGNGAGAAT TTACAAGTCC TTTATTGNAA GAATAATTGT TGCAAAATAT ATTGCTTCTA 120
CTTTCCTGG AAA 133

SEQ ID NO:359

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00383

SEQUENCE DESCRIPTION:

GATCAAGAAT TTGGGTGGGA GAAAAGAAAG TGGGTATCA AGGGTGATNN GAAATTTTCT 60
GCAGCATTAA AGCTGGCGCT TAATAAGAAT AAGTAATAAT AAAGAAATT CTAACATTCC 120
ATGTCAGAAA 130

SEQ ID NO:360

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00384

SEQUENCE DESCRIPTION:

GATCTGAAAC TAATAGTAGG AGTTTCCCCA GAAGTCATTT TCAGCCTTAA TTCTCATCAT 60
GTATAAATTA CCATAAATNA TGCATGTNTG TTTACTTTAG TGACGTTCCA CAGAATAAAA 120
GGAAACAAGT TTGCCATCTT GGTGTTGCAA TATGAAA 157

SEQ ID NO:361

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00385

SEQUENCE DESCRIPTION:

GATCTGAAAA GCGTCTNCA CTGCTTTATC TCATGATGCT TGCTTGTAAG ACTTGATTTN 60
AGTTTTTCAT NNCTCAAATA GGAATACTAC CTTTGAATTC AATAAAATTC ACTGCAGGAT 120
AGACCAGTTA AA 132

SEQ ID NO:362

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00386

SEQUENCE DESCRIPTION:

GATCTGCCAG GNTGGGTGGT TCTACTGCTT TCTCAATTTC TAAGAACCTT TTTTTTTTCT 60
NAAAGAGTTC TGCTGAATTA TTTGACAATA TTTGNAAGTA CCATGTTTCC TNGNGGGGTA 120
TGCTCTGTNC TGGTTTCTGT TTTNAAATCA AATGCCTGTT TGGGAGGAGA TGAACGNATT 180
NAGTCTATTA GATTTGN 197

SEQ ID NO:363

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00387

SEQUENCE DESCRIPTION:

GATCACAGTG TCAGAGACGC GTCCTCTTTC TTGGGGAAGT TGAGGAGTGC CCTTCAGAGC 60
CAGTAGCAGG CAGGGGTGGG TAGGCACCCT CCTTCCTGTT TTTATCTAAT AAAATGCTAA 120
CCTGCAAA 128

SEQ ID NO:364

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00388

SEQUENCE DESCRIPTION:

GATCCCAGGA GACACCAGGG CCAGAGTGAC CACAGCAGGG CAGGCATCAT CGTGTGTGTG 60
TGTGTGTGGA TGTGTGTGTG TGGGTTTTNT AAAGAATTCT TGACCAATAA AAGCAAAAAC 120
TGTCAAA 127

SEQ ID NO:365

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00389

SEQUENCE DESCRIPTION:

GATCTACAAA TGGGAAGCTT GTGAGTGGCC CATCTTTGTT GGCCTACGAA CTTTGTTTTG 60
ATGCCAGTCA GGTGCCACAT GAGAACCTTT GCTGAGATGC AAATAAAGTA AGAGAATGTT 120
TTCCTGAAA 129

SEQ ID NO:366

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00390

SEQUENCE DESCRIPTION:

GATCAGCTAT TAAATTTATA TAAAACATAG GCATGTTTGT ACTAATGAAA CGTACTGTCA 60
ACCTCTATCA CATTGTTAAA TTAACACTTT TGGTGGTAAC TCAATAAAAT TGAGAAAATT 120

GGAAA

125

SEQ ID NO:367

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00391

SEQUENCE DESCRIPTION:

GATCTTTTTA ATTATAATTT TGTTGTATTT GTTTCCTAGG AGCAAGTGTT CCTGCTGCCA 60
GTTCTTTCCT CTTTAGGCGT GGTGAGAAA AAGCAGAAAC TTTACATAAA GCTGTATTTT 120
TTAATCATCT TTAATTTGAA ACTTAAGNAA ATGAATTTAT TCTGTNATAT TTATGTAAC 180
NATTCCTGG NAGTNATATC TACTAGTNTT GNTTGATAAT AATAAAATTN GGCTATACCT 240
TGNAAA 246

SEQ ID NO:368

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00392

SEQUENCE DESCRIPTION:

GATCTAAAAT TTATTGTGGT GATGTTTGCA TAACAGTGCA AATATACTGA AAACCACTGA 60
ATTTTACACT TTAAATCAGT GGCTTCTGTG GTATGTTATC AATATTTCTC AATAAACTT 120
CAAAAAAATA AA 132

SEQ ID NO:369

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00393

SEQUENCE DESCRIPTION:

GATCTGGTAT TAGGAAATTA CTTTCACAGT AAATATCAAA GAAAAAAGAT TAAGGGTCTC 60
TTTGCCATGC TTTTCATCAT ATGCACCAA TGTAATTTT GTACAATAAA ATTTTATTTT 120
CTAAGTAGAA A 131

SEQ ID NO:370

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00394

SEQUENCE DESCRIPTION:

GATCTGAAAA AGAACACTGT GCGAGATTGT ATTCCTGCTT ATCCTTTCCA AGTTAGTAGG 60
CAGATTGGAA CTATAGAATT TATCCGTGAT AATAATAAAG TCCGCATAAC TTTTGTCTG 120
AAA 123

SEQ ID NO:371

00389

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00395

SEQUENCE DESCRIPTION:

GATCTAAAGA GAAACTGTAG ATTGTTTTCC TGACAGCAAA AGACTAATGT GACAAAATGA 60
AGTCATTGTA AAGAAGCGAT GCAACTTGTC AAATATTTAA TAAAGAATTA TGGAAGCTGG 120
AAA 123

SEQ ID NO:372

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00396

SEQUENCE DESCRIPTION:

GATCACAAC T GNAAGATAAC AAGAGATTTA AGTTTAAAGG GCATTTAATC AGGAGGAAAAG 60
GTTTGAAAA CTAACCTCAGG TGTATTTNTT GTTTAAGCAG AAATAAAGTT TAATTTTNC 120
TTGN 124

SEQ ID NO:373

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00397

SEQUENCE DESCRIPTION:

GATCTGTGTT AGAATGAGTG CTTTCCCTTC CTAAGTATGT GATTGTGGAT TAGGAATTCG 60
TGACCGAGTG ATTTTGGGCC AGTGGTTGGG TTAAAATTC TATTAATTT TGTAGTTTGG 120
GN 122

SEQ ID NO:374

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00398

SEQUENCE DESCRIPTION:

GATCGCCGCC CTGCTGGCCA CCTGCGNTGG NGCTGGCNCT CGTGGTCGTC GCGCTGAGAA 60
AGTTTTCTCC CTCCTGAAGC GAATAAAGGG GCCGCNGCCG GCCGCGGCGC GACTCGGCAA 120
A 121

SEQ ID NO:375

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00399

SEQUENCE DESCRIPTION:

GATCAGGCCC GGTGCCTGCA GACCTGGTGC TCCCTCGGGC AGGGCTGGGT GCCGCACCGC 60
CTGCTGGCTT TTCTGGCAGC TCCTCTGTAT CAGAACCAAT AAAGTGCAC TGTTCCTCGN 120

SEQ ID NO:376

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00400

SEQUENCE DESCRIPTION:

GATCAGGCAG TCCTNAGGA TAGACAGATA TACACACCAC ACACACACAC CACATACACC 60
ACACACACAC GTCCCCATCC ACTNACCAC AACTACACA GNCTGNTNCC TTATAGCTN 119

SEQ ID NO:377

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00401

SEQUENCE DESCRIPTION:

GATCTNATTT GTAACCCACT GAGAGGACAG AGAGAAATAA GTGCCCTCTC CCACCCTCTN 60
CCTACTGGTC TCTCTATGCC TCTCTACAGT CTCGTCTCTT NTACCCTGGC CCCTCTCCCT 120
TGGGCTGTGA TGA AAAATTG CTGACTGTAG CTTTGGGAG TTAGCTCTG AGAACCGTAG 180
ATGGATTNCA GTTCTGGGAA AATAAAACCC GTTGATTACT NNAAA 225

SEQ ID NO:378

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00402

SEQUENCE DESCRIPTION:

GATCTTAATA TATTTGAAAA AAACCTTCATT CTCGTGAGTC ATTTAAATGT GTACAATGTA 60
CACACTGGTA CTTAGAGTTT CNGTTTGATT CTTTTTAAAT AAAC TACTCT TTGATTTAAA 120
GCAAA 125

SEQ ID NO:379

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00403

SEQUENCE DESCRIPTION:

GATCTCAGTT CTGCGTTTAT TGTAAGTTGA TAAAAACATC TGGAAGAAAA TAACTAAAAC 60
TGTTTGCATC TTTGTATGTA TTTATTACTT GATGTAATAA AGCTTATTTT CATTAACAAT 120
TTGTATTAAA ATNTGGGTTC CTTGAAA 147

SEQ ID NO:380

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00404

SEQUENCE DESCRIPTION:

GATCACCTTT TCAGAAATTT AGATGTGAAC ACCAAAAGAA GCATTTTCTC AACAAAAATT 60
AATAGCTGGT TCTATTTTTT TTAAACCTAG AAAAAATAAA GTTGATTTTT TTCAA 116

SEQ ID NO:381

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00405

SEQUENCE DESCRIPTION:

GATCAATAGG GAGAGAAAAT CCACATTCTT GGGCTGAACG CGGGCCTCTG AACTGCTTA 60
CACTGCACTC TGACCCTGTA GTACAGCAAT AACCGTCTAA TAAAGAGCCT ACCCCCCAA 119

SEQ ID NO:382

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00406

SEQUENCE DESCRIPTION:

GATCTTTATT ATGGAAANCA TTTCAAGTTT ACTCCTTCTG TTTTAAGTTT TGTAGCAGTG 60
TACCCACGCT GGGTATTACN NCCNAAATAA TCTGTNAGTG AAAGTTGCCA TTATN 115

SEQ ID NO:383

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00407

SEQUENCE DESCRIPTION:

GATCGANCTG CGCAANTGNG NAAGCTGCAG AGGACATCGC GTACCANCTC TCACGCTCTC 60
GGAACATCAC CTACCTGCCA GCGGGGCAGT CCGTGCTCCT CCAGCTGCCC CAGTN 115

SEQ ID NO:384

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00408

SEQUENCE DESCRIPTION:

GATCTCTCAA AAAACAAAGA ATTACATGAG TTAGTACATG AAAAAATTAT GGGAAACTAC 60
ATGAAATATA CTGTTACGTT CAATAAACAT TAGCTTCTGT ATATAATANT AAA 113

SEQ ID NO:385

LENGTH:116

TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00409
SEQUENCE DESCRIPTION:
GATCTCTTCC CCCAACTTCC TAACACTTAT TAATTTATGA AACTGTTTT CTCAGCGCAG 60
TTTTGTTTTG TGTGTCCATT GGATTACAAA CTTTATTAAA AAATATAAAA CACAAA 116

SEQ ID NO:386
LENGTH:118
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00410
SEQUENCE DESCRIPTION:
GATCTCTCTC TTCTCGCGCG CGCACTCTCT CTTCACACT CCCCTGCGTA CCCCAGTTCT 60
AGCAAACACC AATTGATTGA CTGAGAATCT GATAAAGCAA CAAAAGATTT GTCCCAA 118

SEQ ID NO:387
LENGTH:247
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00411
SEQUENCE DESCRIPTION:
GATCTATAAA AAGTCAGCAA CTGATGTGTT TGAAAAGCAT CCTTGTCTNT ATATCCTAAT 60
GTTTGGATGT GTCTTTNCTA AAGTCTCACA AAAATTAGTG GTAGCTCACA TGACCAAAAG 120
TGA ACTATAT CTNCAAGACA CTGTCTNNGG GGGGCCAGGT CTTTTGTTTT TAGGNCCAGT 180
ACTTNNATAA TTTTNTAGAC GGATATGGTT GTCCTATGGA TGGCAATGGG TGNTTNTCTCC 240
ATTTGNN 247

SEQ ID NO:388
LENGTH:112
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00412
SEQUENCE DESCRIPTION:
GATCCTAGGA AGAGAGAACA GAGTGGCTCA CAAGCCCCAA CACAGTNAGC AGCAGATGAC 60
AGGCACNCTN AGACCACACT NTAGGCCACC CATGGGNCCA AAAGGGAACA GN 112

SEQ ID NO:389
LENGTH:111
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00413
SEQUENCE DESCRIPTION:
GATCACCACN TAAGTCAGAA AAATGTATTT TTAAATGTTT CTTGAAGTGC CTTTTGAACA 60
TTTTTAAACA GCGGATTAA ATAATGCATA AANTAAATTG CCATGNTCAA A 111

SEQ ID NO:390

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00414

SEQUENCE DESCRIPTION:

GATCACCTTA GTTTGATTCT ATTTTTCAGC TTGCAAAAAG TGACTTATAT TCCAAAGAAA 60
TTAAAATGTT GAAATCCAAA TCCTAGAAAT AAAATGAGTT AACTTCAAA 109

SEQ ID NO:391

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00415

SEQUENCE DESCRIPTION:

GATCGTNACG CTCGCATCTA TAGATAACGG CTCTCCAGAC CTGAGCTTTC CGCGTCANAA 60
TG TAGGAATN GTTTTCCTG CAGAGAATAA AAGGACCACG TGNAATACTT N 111

SEQ ID NO:392

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00416

SEQUENCE DESCRIPTION:

GATCTTATTG AAGGACATCT TACAGCTTCC CAATGAGAGG CCAGGAAGTG TGAACATACT 60
GATAGAAAAA GACTATATTT TATCCCTCAT AAAATGTTTT AAATGTAAA 109

SEQ ID NO:393

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00417

SEQUENCE DESCRIPTION:

GATCACTGAG TGTACAGAAG AGAGAAATTC AAACAAAATA TTGCTGTTCT TCAGTTTTGT 60
TTGTGGAATT TAAAATNACT CAAATTTAAA ATAAATNACT GGACTGTGGA AATAAA 116

SEQ ID NO:394

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00418

SEQUENCE DESCRIPTION:

GATCTCAAGA GTTCACCTGG CTNACAGAAA GAAGATGCCA GATGACACTT AAGACCTACT 60
TGTGATATTT AAATGATGCA ATAAAAGACC TATTGATTG GACCTTCTTC TTAAA 115

SEQ ID NO:395

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00419

SEQUENCE DESCRIPTION:

GATCATTCTG AACTGTACAT ATTTATGTNG CGAGAGGCAA AGGGCAAGTT TTGGATTTTC 60
CTTCTTCCAA GTTTGTTTTT AAACGACAAA TAAAAAAGA ACATTTTAAA TAAA 114

SEQ ID NO:396

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00420

SEQUENCE DESCRIPTION:

GATCTGAATC TNTGACTTAT TGATTATGGA ACCTGTCAAG TAGTTTTNAA CTCTCCCAGT 60
GAGGATAATT AAACATGCTC AGCCTGAGCC ACCTCTAAGT NTCAAA 106

SEQ ID NO:397

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00421

SEQUENCE DESCRIPTION:

GATCGTTCTT CATGGGGGTA AGAAAAGCTG GTCTGGAGTT GCTGAATGTT GCATTAATTG 60
TGCTGTTTGC TTGTAGTTGA ATAAAAATAG AAACCTGAAT GAAGAAA 107

SEQ ID NO:398

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00422

SEQUENCE DESCRIPTION:

GATCCCCTCA AAAGGCAGGA NTGCTGCCCT CTNCCATGGT GCCCGTNCCT CTTTGCTGTN 60
TATGTNAACC ACCCATGTAA GGGAATAAAC CTGGCACTAG GTCTTAAATA AA 112

SEQ ID NO:399

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00423

SEQUENCE DESCRIPTION:

GATCANCTCT AAGGTGCAAC TNCCTCCACA TACTGTACAT ACCTGTNACC ACTCTGGAA 60
GTCCTGCAGT CTTTAATCAT NCTGTTTAAAN CTGTTGTGGC ACAAN 105

SEQ ID NO:400
LENGTH:104
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00424
SEQUENCE DESCRIPTION:
GATCTGGAAC TTGAAGATGC CATTCATACA GCCACTTAAC CTAAAGGGAA AGCTTTGAAG 60
GGCAAATGAC AGAGGGTAAC ATAGGAGGTN GGATNCTNAA TNNN 104

SEQ ID NO:401
LENGTH:104
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00425
SEQUENCE DESCRIPTION:
GATCTTTGAT ATATCATAGT CATTAAAAGA CNTTTTCGTA TTTGTATTGA TAATGTATTA 60
AAAGTNGTTT GTNCTTAATA AAAGACTTCT TTAANCATCT NAAA 104

SEQ ID NO:402
LENGTH:109
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00426
SEQUENCE DESCRIPTION:
GATCCCCGGC CTCAGTCCCT ACTCTGCTTT GGGATAGTGT GAGCTTCATT TTGTACACGT 60
GTGACTTCGT CCAGTTACAA ACCCAATAAA CTCTGTAGAG TGGAACAAA 109

SEQ ID NO:403
LENGTH:110
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00427
SEQUENCE DESCRIPTION:
GATCACCTGC AGCTGGCCAC ACCACAGGCC CCCGNTGCCT GCAGCACTAC TCNGTNCCTN 60
AAACACCTGG CCTGCTAGGA GGCTCCAATA AAGCTAACCC GGACCAGAAA 110

SEQ ID NO:404
LENGTH:157
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00428
SEQUENCE DESCRIPTION:
GATCCTCAGA ACTTCTCTGG GACAATTCA GTTCTAATAA TGTCCTTAAA TTTTATTTC 60
AGCTCCTGTT CCTTGAAAAA TNTCCATTGT ATGTGCATTT TTAAATGAT GTCTGTACAT 120

AAAGGCAGTT CTGAAATAAA GAAAATTTTA AAATAAA

157

SEQ ID NO:405

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00429

SEQUENCE DESCRIPTION:

GATCAGCAAC ATTTGCTGAG CCTGTTTTN AAGCTAATGT GTATTCTNAC TAATNTNCCT 60

ATCAAGAATG GATTGTGAAT ATATNCTGTC TATTTCTAAT GTN 103

SEQ ID NO:406

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00430

SEQUENCE DESCRIPTION:

GATCTGTAAG CACAGTCTTA TTTNCTTTTG TTGTCCAGAA TACTTATAAT TCTTGAGCCT 60

CCCAGAAATT GGAAGCTAAA TAAAGCAACT CAAGTTTCCT TTAAA 105

SEQ ID NO:407

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00431

SEQUENCE DESCRIPTION:

GATCAGCATC ATTGGAACAT GGGGACGAGT GACGGCAGGA GGACCACGAG GAAATACCCT 60

CAAACTAAC TTGTTTACAA CAAAATAAAG TATTCCTAC CAAA 104

SEQ ID NO:408

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00433

SEQUENCE DESCRIPTION:

GATCTATCAC TCTCGTNCTT GTAGCTCCCA GCCGAGGACG TCGGATGTAA TCGTCCTTNC 60

TGCTTTGCCA CCCCATTCCC GTCAATAAAG TGGTTTGAAC CCAA 105

SEQ ID NO:409

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00434

SEQUENCE DESCRIPTION:

GATCAAACCT TTCTGGCCTG TTATGATTCT NAACATTTGA CTTGAACCAC AAGTGAATCT 60

TTCTCCTGGT GACTCAAATA AAAGTATAAT TTNACCTGC GGAAA

105

SEQ ID NO:410

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00435

SEQUENCE DESCRIPTION:

GATCAACACA AAGCACAATG NATTACNCGN AATTCAGTAT TTTCAAATTT ACATATTTAA 60

AGTCATGCAA GCTGTAACCT CCCNGTCAAA ATTACTNGCT N 101

SEQ ID NO:411

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00436

SEQUENCE DESCRIPTION:

GATCATAAAG NNCTATCAAG GAGTTCTATC AAGGCATCCA TGTCAGTGGT GCTATGCTGG 60

TTACAACCTG AGATTTTTGA AATAAAAAAT TTGTCATAAA 100

SEQ ID NO:412

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00437

SEQUENCE DESCRIPTION:

GATCAACAGG CTTATTAGAA GAATGAACTA AGGTGTCTAC CATGATTATN TTTCTAAGCT 60

GGTTGGTTAA TAAACAGTAC CTGCTCTCAA ATTGAAAAAG AAA 103

SEQ ID NO:413

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00438

SEQUENCE DESCRIPTION:

GATCTTGTGC TGTGTCAAAG TAACAGACTA GAACCTTCTT TCAAGTACCT GAATTGAAAT 60

NAAACTCATT TTGAATAATA AAAACTCTAG AAACTCAAA 99

SEQ ID NO:414

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00439

SEQUENCE DESCRIPTION:

GATCTGTAAT AGCATATTGT AGATGCACTT TGCAGCAGTT GGAAAAGAAA GTGTTGTGTG 60

ATTTGATTGA AATAAACTA AATGTGTTGT CCTCCTAAA

99

SEQ ID NO:415

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00440

SEQUENCE DESCRIPTION:

GATCCCTGTG CCAGGAGCCA ACCTGGTCTT CCCGAGGGTC AGTGCCCCAG TGAAGACAGA 60

AGCGAGAGAA TAAAGTTCCC TGTAGGTCCT CTGTCN 96

SEQ ID NO:416

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00441

SEQUENCE DESCRIPTION:

GATCCTCCCA TCCGTGTTGT GAGCACAGGC ATTTGTGTNT GGNCTGTCCT CCCTGTTGAT 60

TGGTCTGGCA TTTCCGGTAT TAAAATGATA ANATAAA 97

SEQ ID NO:417

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00442

SEQUENCE DESCRIPTION:

GATCCTGCAT ATCTCAAGGA CCCTAAAGTT TGTAACATCA GATATCGGGA ATAAATTCTA 60

TCACGTTACC ACTAATAAAC TTATTTTACA GTN 93

SEQ ID NO:418

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00443

SEQUENCE DESCRIPTION:

GATCTGTATT TTGCAAATAT TTTCTTCAAT ATGTGGCTTG TCTTTTGGTT CTCTTAACAA 60

GGTCTCTTCC AGAGTATAAN CTGTAAATAT TAAGAAA 97

SEQ ID NO:419

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00444

SEQUENCE DESCRIPTION:

GATCTGGACA GAATCGCCGG ACAGGTGGCA GCTGCAACAA GAAGCATTAG AACAAACCAT 60

00399

GCTGGGTAA TAAATTGCCT CATTCGTAAT CCTGGAAA

98

SEQ ID NO:420

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00445

SEQUENCE DESCRIPTION:

GATCTATTCT GAGTATTTT TAGAGAGTTA ATATTTATAT TTTTAGTAAT TTTCTGGTAG 60
AAGGAAATTG CACAATAAAA TNATTTGGTT TGGTTTGAAA 100

SEQ ID NO:421

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00446

SEQUENCE DESCRIPTION:

GATCGTTGGC ACCATAGCCT TATGGCCAAC AGGTGGTNTG TGGTGAAAGG GCGTGGAGT 60
TTCAATATCA ATAAACCACC TGATATCAAT AAA 93

SEQ ID NO:422

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00447

SEQUENCE DESCRIPTION:

GATCTGTGTT TNCCCTGACG AATGGAATTT ATCCTCACAA ATTGGTGTTT TAAATGTNTT 60
AAGAACCTAA TTAAATAGCT GACTACAAAA CAAA 94

SEQ ID NO:423

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00448

SEQUENCE DESCRIPTION:

GATCCCAAAC CTTACGGCCA AGTTTCTTCT AGTATGATGG AAAGTTTCTT TTTCTTTGC 60
TCTGAATAAA ACTGAACTGT GGGTTCTCTA TAAGTGGCAT TTTGGGCTTT CCCTCTTTT 120
TGTAAGCAA TGTCTGCCTA GTTATTGTC CAGTTAACTT TAGTGACCTT TAAAAAGTTG 180
GCATTGTAAA TAAACAACCT TGCAAA 206

SEQ ID NO:424

LENGTH:481

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00450

00400

SEQUENCE DESCRIPTION:

GATCTCACCA CTGCACTCCA GCCTGGGCAA CAGAGCGAGA CTCTGTCTCA ACAACAACAA 60
 CAAAAAGTCC TGAACATGAT TGTGGAAGTG TGTTGCTCTT TCAAGTTCTA TCACTTTTTG 120
 TTTGCAAGT TCAAAGCTGT ATTGTTTGGT ACATATACAT GTAGGTTTGC CAAGTCTTTG 180
 TGGTGAATTG ACTCTTCTGT CATTATGTGA TGTCATTTTT TGCCTTTTA ATAGTCTTGT 240
 CAATACTTTA CCTGATGTTT TCATAGTGAC TCCTGCATAT TTTGATTAAT GTTTGCATGG 300
 TTAATATTTT TCATTTTTAT TTAAAGCTT ACCTGTATCA TTAATTATGA AGTCAGTTTC 360
 TTTGAACAGC ATATACTCAG GCCATGCTTT TTTTNATTCA TTCCTGCATA TGGCTCTCCT 420
 TAAATTGGGA ATGGTGAAA ATGGNTTAC CATTANAAT AAATTAATTG GTATTTTTAA 480
 A 481

SEQ ID NO:425

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00451

SEQUENCE DESCRIPTION:

GATCTGGTCC ATGAGGCTGC CCAGAGAAAG CACTGCTTCT NTATGTCTCT TGTGGTATTG 60
 GAACAATAAA CCCGTACAAC CTGCAAA 87

SEQ ID NO:426

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00453

SEQUENCE DESCRIPTION:

GATCATACTT GAAAGTGAAC TTAAACATTG AAAAATCGTA CAGTCATTTC AAGAATAAGA 60
 AAATAAAATT TTCTCTTTGT CTGAACCTGC AAA 93

SEQ ID NO:427

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00454

SEQUENCE DESCRIPTION:

GATCCCATGT GCTCTCACAC CATGTTTTG TACAGAACTG ATGGTTGAAT CTTTGTCTC 60
 TTGAAATAAA CAGAAGAAAA TGAAA 85

SEQ ID NO:428

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00455

SEQUENCE DESCRIPTION:

GATCTATTAA AGAAGTAATT GGCCTTTCTG AGCTGATTTT TCCATCTTTT GTAATTATCT 60

TTATTAAAAA ATTGTACTTG GATTAAA

87

SEQ ID NO:429

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00456

SEQUENCE DESCRIPTION:

GATCTCATTC CATGGGAAAA AAAAAAATCC TGTCTTNTTC ANAAATTGAC AATGTAAATA 60

AATTNAAATA TGGTTCCTG TTA CTCTTAA A 91

SEQ ID NO:430

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00457

SEQUENCE DESCRIPTION:

GATCTGAGAA ACAGGTGTGA CAAGAGCATG AACCANAGGT GCACCTGGGG CAGTTCCTA 60

ATAAACTGG TTTGTACAGT CAAA 84

SEQ ID NO:431

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00458

SEQUENCE DESCRIPTION:

GATCATGAGA GTGCCTGTCC CTTGTGAGCA CTATGAAAGT GTTAGCTGTT CTTTACCAGA 60

ATAAATGCAT TTCTATATCT TCN 83

SEQ ID NO:432

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00459

SEQUENCE DESCRIPTION:

GATCACCGAC TGAAAATATT GTTTTACAAT AGTTCTGTGG GGCTGTTTTT TTGTTATNAA 60

ACAAATAATT TAGATGGTGG TAAA 84

SEQ ID NO:433

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00460

SEQUENCE DESCRIPTION:

GATCTTGATG GATTTNCATA CGATTGTAAA TGNAGCTATA TTAAAGTCTA TTAAAGGAAG 60

CCCTTCTTGT TTGAGGGAGN

80

SEQ ID NO:434

LENGTH:86

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00461

SEQUENCE DESCRIPTION:

GATCTATGCT TGTTTGT TTT TGTAATCCAT ATCATAGTTG CTTTCTTTAA TTGTTTCCTTC 60

TGAATAAACA GTTTATTTAA GATAAA 86

SEQ ID NO:435

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00462

SEQUENCE DESCRIPTION:

GATCCAGTCA CTGACTCTGT CTGGTGTGA CAGAGGATTT ATTTAAGCTA TTATTTTAAT 60

AAAGNACTTT GTACATTTT AAA 83

SEQ ID NO:436

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00463

SEQUENCE DESCRIPTION:

GATCTACATA CAAACAAATG CAACCAACTA TCCAAGTCGT TATACCAACG TAAAACCCCC 60

AATAAACCGT TGAACATGTG ACAAA 85

SEQ ID NO:437

LENGTH:86

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00464

SEQUENCE DESCRIPTION:

GATCTGCTTT TACTTTGTAA TTTGTAGTTC TCAAAAGACT TTTTTTAA AAAATAAAGN 60

CCATACTTAC ACTTAGGCTT TATAAA 86

SEQ ID NO:438

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00465

SEQUENCE DESCRIPTION:

GATCATTCTG AGTGTGCGAG TGTGTGTGCA CATGTTACAA AGGCANCTGC CATGTTAATA 60

AAATATTCAA TTTGAAATCC AAA

83

SEQ ID NO:439

LENGTH:78

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00466

SEQUENCE DESCRIPTION:

GATCCAAACT GTCTTTTTTT TGTATCTGTT ATTTAAAGCC CAGTGGATAT TTCAATNAAA 60

AAAAAATCT AAAGATGN 78

SEQ ID NO:440

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00467

SEQUENCE DESCRIPTION:

GATCTGACCA CCTCTGCCCT GTCCACCAGG ATAAGTGACA CCTAGGACCC AGGAAATAAA 60

TGCCGATGAT TTGTGTGAAA 80

SEQ ID NO:441

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00468

SEQUENCE DESCRIPTION:

GATCTTACAG GGAGAGAGAT TGGGTGCAAT TTGCCTCTTT CTTTGAATAA AAAGCTCTTT 60

GCTCACCTC AAA 73

SEQ ID NO:442

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00469

SEQUENCE DESCRIPTION:

GATCAAAAGT CTACATAACT AATACTCACA GCTGAGCTAT GTAGTATGCT ATGATTAAAT 60

TTACTTATGT AACTTTTATT GTCTTTGGCA TTAACAGTGT TTCAAAAAAT TTCCTGTGTA 120

TACCCATCAG TGATTCATTC CCAAATCTNC TAGAAGCATA AGTGTCTCAA TATATTAAAA 180

CATATTGAAT AATCAAA 197

SEQ ID NO:443

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00470

00404

SEQUENCE DESCRIPTION:

GATCCAGGCG CCACGCTGGC GGTTCTGAG TGTCGAGGCA CCACTAAATA TAGCTGTCTG 60
CCGTCCACTC ATAAA 75

SEQ ID NO:444

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00471

SEQUENCE DESCRIPTION:

GATCANATTG TAAGCTTTTC TGTTNATTT CTTTAAAGAA CCTTTGAATA AAAAACATCT 60
GAAATTTTAA NAAA 74

SEQ ID NO:445

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00473

SEQUENCE DESCRIPTION:

GATCTCTTTG TAGCCATCCT GTTAAATTG TAAACAATCT AATTAAATGG CATCAGCACT 60
TTAACCAATG AAA 73

SEQ ID NO:446

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00474

SEQUENCE DESCRIPTION:

GATCATGTCT GAATTATGTA TGAAAATTAT TCTATGTTTT TATAATAAAA ATAATATATC 60
AGACATCGAA A 71

SEQ ID NO:447

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00475

SEQUENCE DESCRIPTION:

GATCTCTACC CACCCCATGC CTCTCCCNAG TCTTGGATAC TAATAAAATG ATAAGCATTC 60
TGGTTCTCN 69

SEQ ID NO:448

LENGTH:68

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00477

SEQUENCE DESCRIPTION:

GATCGTAATG TAAATTCCTT TTACCATGTA CAAGAATTAT TAAATACAG GTACTTGACC 60
ACATTCTN 68

SEQ ID NO:449

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00478

SEQUENCE DESCRIPTION:

GATCGGGCCC CGGGGGCCTG AGCCTGGGAC CCCACCCNGT GTTAATGAAA AATGAGTTTT 60
GGCAGCGCCA AA 72

SEQ ID NO:450

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00479

SEQUENCE DESCRIPTION:

GATCCTTTTG TAATGACTTA CACTGGAAAT GCGAACATTT GCAGTAAAAA AATATATATA 60
TAAA 64

SEQ ID NO:451

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00480

SEQUENCE DESCRIPTION:

GATCATGCAT TTAGATTTAT ATTTTNCCTA NAAAATACAA GGTTATAATA AACTAAGAN 60
CTACCN 66

SEQ ID NO:452

LENGTH:70

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00481

SEQUENCE DESCRIPTION:

GATCTCTATT GTAATCTCTA TTGGAGATTA CAATGATTAA ATCAATAAAT AACTGAAACT 60
TGAANATAAA 70

SEQ ID NO:453

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00482

SEQUENCE DESCRIPTION:

GATCACTAAT TTTGCATCAG TAAATGAAT TTTTAAAA CCAATAAATC ATCAATTATT 60
AGAAA 65

SEQ ID NO:454

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00483

SEQUENCE DESCRIPTION:

GATCACAGTT GCGTCATTGT GTATTAAATA CTTGGAATAA ATCAAGCAGG TCTCAACGCC 60
AAA 63

SEQ ID NO:455

LENGTH:68

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00484

SEQUENCE DESCRIPTION:

GATCATTAAT TGTAAGCGC TTTGTAAAAT TCACATTTAC AAAATAATAA AGTCAGTTCA 60
AACCTAAA 68

SEQ ID NO:456

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00485

SEQUENCE DESCRIPTION:

GATCTGTGTC TGAGTCATCT TTGTATCTTG CCTAGCACCT ATCAATAAAT ACTTCTTGAA 60
TGN 63

SEQ ID NO:457

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00486

SEQUENCE DESCRIPTION:

GATCATGGGA ATATGCAGAA TTTCCAATGT ATTTTAAAT ACAAATAAAA TTGTAATTTA 60
GN 62

SEQ ID NO:458

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00487

SEQUENCE DESCRIPTION:

GATCTAACAC TAACTGTATT GTTTGTTC CATCAAATAA ACATCTTCTG TGGACCAGGA 60
AA 62

SEQ ID NO:459

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00488

SEQUENCE DESCRIPTION:

GATCTCGGCT CACTGCAATC TCTGCCTCCC GGGTTTCAAG CTGTCCAGG NNNATCTCAA 60
A 61

SEQ ID NO:460

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00489

SEQUENCE DESCRIPTION:

GATCAACCTG AGTTTTAAAA TACCTTTAAT AAATATNAGT NGAAAAAATG TCTACTTNAA 60
A 61

SEQ ID NO:461

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00491

SEQUENCE DESCRIPTION:

GATCAAACAC CCCACCCTCA CAAAAATGGC CACGTTGCAA TAAAAATTGT GGCATATTAC 60
N 61

SEQ ID NO:462

LENGTH:86

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00493

SEQUENCE DESCRIPTION:

GATCTTTATT TTCCCTTTGT ATTCATTTTA AGCATCTAAA TAAATTGCTG TATTGTGCTT 60
AATGTAAATA TTTGCTTTAT TACAAA 86

SEQ ID NO:463

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00494

SEQUENCE DESCRIPTION:

GATCTCTACT ACTGTTGATT TTGCCCTCGG AGCAAAGTGA ATAAAGCAAC AAGATGAAAA 60
CTGAAA 66

SEQ ID NO:464

LENGTH:70

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00495

SEQUENCE DESCRIPTION:

GATCAAACTA GAACTCATAT GCCATACTAG ATATGGTTGT CAATAAACTT ATGACGTGAA 60
AAAAAAGAAA 70

SEQ ID NO:465

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00496

SEQUENCE DESCRIPTION:

GATCCAAAAA GTGCGCGATG CGAGTAGTCA AGTCGTACTC CGCCATCTTG CCAAAGN 57

SEQ ID NO:466

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00497

SEQUENCE DESCRIPTION:

GATCTAAAGC TCTTTCGATT TTATACTGAT TAAATCAGTA CTGCAGTATT TGATTAACCA 60
AGAAA 65

SEQ ID NO:467

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00498

SEQUENCE DESCRIPTION:

GATCTAAGGC AAGAGTTTCA GATTTACTGT TGGAAATAGA CCCAACTCTT CATGN 55

SEQ ID NO:468

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00500

SEQUENCE DESCRIPTION:

GATCATAAAT ATTAATGGNG AAAACACTGT AGTAATAAAT TTCNATATGC CAGAAA 56

SEQ ID NO:469
LENGTH:52
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00503
SEQUENCE DESCRIPTION:
GATCTGTTCA GTGTCACTCT GTACCCTCAA CATATATCCC TTGTGCGATA AA 52

SEQ ID NO:470
LENGTH:54
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00504
SEQUENCE DESCRIPTION:
GATCCCCGGT NGGTTTTGTG CTCAAATAA AAAGCCTCAG TGACCCATGA GAAA 54

SEQ ID NO:471
LENGTH:57
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00505
SEQUENCE DESCRIPTION:
GATCATCCGG TTATAGAGCA TAATTTGCCA ATAAAGCTTT TGGAAGCGGG AAAGAAA 57

SEQ ID NO:472
LENGTH:60
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00506
SEQUENCE DESCRIPTION:
GATCCAGTGT TGGNATTCTT TGGTGTAAT AAACGTTTGG TTTTATTTAT NCAGGTAAA 60

SEQ ID NO:473
LENGTH:51
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00507
SEQUENCE DESCRIPTION:
GATCTCATTT ATTGCCACAG ATGCACAAAA TAAATAACCC AAAATCACAA A 51

SEQ ID NO:474
LENGTH:80
TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS00510

SEQUENCE DESCRIPTION:

GATCATATAT TTTGACAAAA TATATTTATA ACTACGTATT AAAAGAAAAA AATAAAATGA 60
GTCATTATTT TAAAGGTAAA 80

SEQ ID NO:475

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00511

SEQUENCE DESCRIPTION:

GATCCAAAAC TTTAATGTTG CACNTGTATT CCAAATAAAG GGTAAAAACA GAACCAAAGT 60
TATAACTCCA ACACAAA 77

SEQ ID NO:476

LENGTH:669

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00532

SEQUENCE DESCRIPTION:

GATCAAAAAG AAGGCTTAGA ATTCTGCAGT TAAGCTGAGG TTAAACTAA AAANTGTTTC 60
CTTGGGTCAG TGGTTTNNAG GTCCAGTAGC TAGGCTTTTT TCTTTGTCC TTCCTGTTGG 120
AATGAAAACA TTTCGATTTT CCTTCATCTG TGAAGGTGC CATAGACACA GGTTTATAGT 180
TTTAACTTAC AGTATTGTTT GAAATTTACC TGTNTTNTT GTCAAACCTG AGCACTCCTC 240
CTGCTGAAGT TTCTTATTTA ATTCCAGAGT ACTGTCTCT ACTCTAAGGC ATTACTTTTA 300
AGTGTATTAT GAAGGCAGTT TTCAAAGGAT ATGACCAGTT GGGGGTAATT CAAATTAAAA 360
AGGAAAAGAT TTGTTTGGGA AGTAACTGGG TGTCTCTAAG AGGGAATTTT TAGGATGTCC 420
AGTTTGGGAG GCTCTTTCCC CCCTCAAATT GAGANGCTCC TTGGTTAATT CAGAGCTCCC 480
ANGACTAGGC CCTGGGCTAA CCAANCATTN GGGNGGCCAA AGGTTAGGGA ACCATTNGNT 540
ACCAAGCTTT TGNANCAGGG GGNTTNTNC CATTTGGGTA ATAGGGCCCT TTTCANGCCT 600
TTANGGGTAN GCTTTTTTAN CCCNGAAACC NTTNNTNNT TTGNAATTAA ACCGGAACCT 660
TTTGNCAAA 669

SEQ ID NO:477

LENGTH:651

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00533

SEQUENCE DESCRIPTION:

GATCAACCTG GAGCTCTACG CCTCCTACGT TTACCTGTCC ATGTCTTACT ACTTTNACCG 60
CGATGATGTG GCTTTNAAGA ACTTTGCCAA ATACTTTCTT CACCAATCTC ATGAGGAGAG 120
GGAACATGCT GAGAACTGA TGAAGCTGCA GAACCAACGA GGTGGCCGAA TCTTCCTTCA 180
GGATATCAAG AAACCAGACT GTGATGACTG GGAGAGCGGG CTGAATGCAA TGGAGTGTGC 240
ATTACATTTG GAAAAAATG TGAATCAGTC ACTACTGGAA CTGCACAAAC TGGCCACTGA 300
CAAAAATGAC CNCCATTTGT GTGACTTCAT TGAGACACAT TACCTGAATG AGCAGGTGAA 360

AGCCATCAAA GAATTGGGTG ACCACGTGAC CAACTTGCGC AAGATGGGAG CGCCCGANTC 420
 TGGCTTNGGC GGAATATCTC TTTGACAAGC ACACCNTGGG AGACAGTGNT AATGGAAGCT 480
 TAAGCCTTGG GGNTAATTTN CCCCATANGC NGTTGGGTG ACTTCNCTGG TCANCAGGGC 540
 AGTTCANTGA ATGTTNGGGG TTNCCTTTAC CTTTNCNTTA GGTNGTCCNA AACAATCCNT 600
 NAAAGTCTTT GNTTTGNACC NTTCCGNNA TAANGGATTN GGGCCCGNAA A 651

SEQ ID NO:478

LENGTH:617

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00534

SEQUENCE DESCRIPTION:

GATCAAGAAA GTGGGGGGAA AAAAAACAAA CGTTAAAACC TCAATCCTCA GTAGGAAGGT 60
 AGATTACATT AGGTGAAATT ATAGGTAATC TATGTATGTN CTAATGGGGT TGGAAAGAAC 120
 CTTACAGAGC ATATTACCTG ATAACTGGA GTGGGTTTGG GAGAACAAAC TAATAGGATT 180
 ATNGTNTCTC CTAGTTGGTA CCTGGGAGCA ATTGACATGC CCCCTTCAGA ACCTTAAGT 240
 TTAGTAGCAG TGGCTGTAAC AACACAAACC AGTGACCAGA GATAACAGCT TTTNGGCCAA 300
 GCTGGCCTGA CGGTATGGCT GCAGGANGTG ACTGAGCAGT AGCGGTACTC AGCCAGACCA 360
 AGACGGAGAG GGGAGAGTCC ACAGCTTTCT GGAGCTAAGG CATTCTGGTG GTAGAAAAGT 420
 GTGCCCNAAG CCTTCATNGG CGGGTTATAN GGTCTNAAGA TAAGTCTCCT CTTGTNTGGG 480
 ATNCCATACT NTGCTAAATA ACCNNGGTAT TANCCGGGTT TTCCNTGTAA CNGCCTCTNG 540
 GGAGGAANTG ACTNNGNAAG NTGGCACAGG TNTTTAAGCN TNAATGGAAA GGGNNAATC 600
 CTNCTCAAAN TAGAACN 617

SEQ ID NO:479

LENGTH:569

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00535

SEQUENCE DESCRIPTION:

GATCTGTCAG CTGCTTAATT AATTGAAACT TCTCTGTCAT TGATGTTGCA TTTCCAAGGA 60
 GATAATCTCC TTCTGGTGC CTAATTTTCT AGATGATAAT AGGCTAGTTT TGATTTCTTG 120
 CTCATTTTCA GAATAACTTT CCAGGAAGAG ATGGCATTTA GAACTTCAGC TTTGGTGCTC 180
 AGGTATAAAG CCAATTAAGG TACAATTGTA CCATAAAGGG AACAATCTGT TTCTGATTGC 240
 ACAGTTTCTA ATTTTAAAA CTGNNGTGGT TTGCATTTC TAAAAGGCAA AGTTTACAGA 300
 NCCATAAACA TTCTCAATTT TCTTTATGCT AGACATATAA ATTTATTTT CCAAACGTGA 360
 ATAGGATTTG GGGTAAAAAG NTTGTCTCAG GTNCCTCTNC CCANTTTGCC AATGGGGNAA 420
 AAAAAAGGCT TAATTTTTTA CCATNNTACT TNAATTTTC TAAAACCCNT GGTAACCCCC 480
 CATTGGNACC CCNATTTTTC CANCTTTAAG GGTCTNGCAT NGGCNGGCTT TTTNAATTNN 540
 CCCTGGGGGG GTTTTNCCTG GGAGGGCCN 569

SEQ ID NO:480

LENGTH:556

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00536

SEQUENCE DESCRIPTION:

GATCCTGAGC NTGGTGCTGT GCTGTGGCAT CCGGAACAGC TCCGTGTACT GAGGCCCCGC 60
AGCTCTGGCC ACAGGGACCT CTGCAGTGCC CCCTAAGTGA CCCGGACACT TCCGAGGGGG 120
CCATCACCGC CTGTNTATAT AACGTTTCCG GTATTACTCT GCTACACGTA GCCTTTTTTAC 180
TTTTGGGGTT TTGTTTTTGT TCTGAACTTT CCTGTTACCT TTTCAGGGCT GACGTCACAT 240
GTAGGTGGCG TGTATGAGTG GAGACGGGCC TGGGTCTTGG GGACTIONGAGG GCAAGGGGTC 300
CTTCTGCCCT GGGGTCCCAG GGTGCTCTGC CTGCTCAGCC AGGCCTNTCC TGGGAGCCAA 360
TNGNCCAAGA GACTCAGCTT GGNCAAANTT GGGGGGGNTN TGTNCAACCA NGCCCGCNNN 420
TCCTNTTNGG GTTGAAAAGT TTAACCTTGT TTCCCTTTCT NGCCCCGGTT TTGGAGAACC 480
CGANTTTTTT GGGGNAATTT TTTGCTTNA ATNAACTTNT NCCTTTTTTA AAAANGTGGG 540
TTTAAACTN TNAATN 556

SEQ ID NO:481

LENGTH:551

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00537

SEQUENCE DESCRIPTION:

GATCTACTGT CTTTGTTCAA AGGTCAAATA AAAACCTAGT CTCCTTTTAT TCTACTTTCT 60
ATTCTTAGCT AGAATGAAAC TCAGCATATA TACACTTCTG GACATAATAA TATTGAATAG 120
TAATTACCTT TACTAGATGA AAGAAATTTT CATTACAAAC TTAAATCATG TAAAACTCAA 180
CAACTCAGAT TCCTGGACCT GGTGTCCTGG NTGGGTCCAA GGTGATTTTA CAGAAAGNAAA 240
AANCAACTNA AGCATTCTGG TGGCAACATA GAGATTGTAG GCTGCTTCTA AGGAAGTNAT 300
TAACAATTNG GAAATTCCNA AGTAGGATGA GAGTTAGTAA CTGGATACGA GTGAAGTTTA 360
TATCCAAGTT CAGNCTCAAA GGCATNATTA TGATTNGCTT CTTCCCATGT CTNCCATGGN 420
CCTGCTTCTC AAAGTTTTTC TNATCNATCA CACTGCTGCC TAACTGCTCT GAGNATGCAT 480
GNGGTNTTCA ATTCAGCGTN NTNTNAATCN GGNNTANCTN TGGATTGGGA TGGGGATACG 540
GACNTTAAGG N 551

SEQ ID NO:482

LENGTH:520

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00538

SEQUENCE DESCRIPTION:

GATCTTAATT TTGAAATTGA CATGAAAGTG TCATATCAGT AATCTGTGAA CCACCAGTCC 60
TTGGTACCTA TCAGAGGGTC AAAAATCAGC ATTAATATA ACCAAAAAC TTTATAGTGA 120
CTGATTCAAA TTTGAATACT GGTTTTAGCT AATGTAGTAG TAATGAACTG GTTTGGGGGT 180
AAGATTTTCC TGGTATCTTA TTGCTGTAGA AATTTTCCTT TAACAGTTAC AGTGTTTTCT 240
TCCAAATCCT TCACTTCTCT GTCCTGGCTT GTAAAGAAAA CATCTGAGGA CTGAGGGGTC 300
ATATTTGAAT TGCTCTNTAT AATACCATAG ACTACTCATT GCTTAGACTN TACTAAGCTA 360
GAAATCACAA GAGCATAAGC NACTCTNAAA ATTNATATNA TGNGAATGTA AAAGGTACCT 420
GNCTGCAAAT ATCTNGANCN TCACTTTGGC TCAAGTNTCN NGTTAACCTG TNNNNTAATA 480
CNGNNATGTG AATTNGGCCA CCAGGTCCAT GNTTGGCAAA 520

SEQ ID NO:483

LENGTH:517

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00539

SEQUENCE DESCRIPTION:

GATCATGCTT TTNGTGCCTG TCACCAGGTC TCCCAAGTGC ACTCATCCAG GTCAGTGCTC 60
AGATGTGTTT AAGGAGACCC TATATTCAGG GAAGTTGCGT GAACACTGCA GTGGGGAGAA 120
TTGAGAAATAG TCAGGCCTAT CAGTCTCACA GAATCACCCC TCTACCTTTG ATATTCCACT 180
TAGCTGTAGA GTCCATCTGT TTGTCCATCT GCTGAAATGA GAAAAGAAAA ATTTATGCAC 240
TGATTTAAAA CAAACCAAAA AAAAAGAAAA AAACAAAAAA AAAAATCCNT CCTTTCTNGC 300
TGACCAAAAN TGTGCAGTTA ATNCTGGGNG CTTGAAANTG CAGTGGTGAA TNTGGACCAA 360
GCCTGTCTGT ATATCTGGTA GCTCTTTTCT GGCTTNGTTT TTNCTTACCA GTATTCNGGC 420
CTAACGTTTT GCTTCGGGNN TGTAATATN NCCTNGNAAG NACANCNGTG GGTGTGGAA 480
ATGGGTNNGG CAAAANGGAA NTTCCNGGGG TTTTGGN 517

SEQ ID NO:484

LENGTH:515

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00540

SEQUENCE DESCRIPTION:

GATCTTCTGG CTCTACCACC ACAAGATATT ATCCTTGCAT CTNATGTGTT CTTGAACCA 60
GAAGATTTTA AAGACATTTT GGCTACAATA TATTTNTTAA TGCACAAGAA TCCCAAGGTC 120
CAATTGTGGT CTACTTATCA AGTTAGGAGT GCTGACTGGT CACTTGAAGC TTTACTCTAC 180
AAATGGGATA TGAAATGTGT CCACANNGNT CTTGAGTCTT TTGATGCAGA CAAAGAAGAT 240
ATAGCAGAAT CTACCNTTCC AGGAAGACAT ACAGTTGAAA TGCTGGTCAT TTCCTTTGCA 300
AAGNACAGTC TCTGAATNAT ACCNACAACC NGTNCTGGGA CAGTATCAAT ACTGATGAGC 360
AACCNGGCAC ACAAATATG AGCAGACCAC TTCAGCTTGA GGAATGCAGT GGGTCTGAGG 420
ATGGTCAAGT CTGTTTGCTT TAGATTTTGN TGTCACCTGG CCACACTTGA AANCTNNTT 480
GGAACAAAAN TTAAATTCG GGTTCCTCAAG GTAAA 515

SEQ ID NO:485

LENGTH:510

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00541

SEQUENCE DESCRIPTION:

GATCTGCAGC TCTCAGAGGA CGACTGAGGC AGCCCATCTG GGGGGCCTGT AGGGGCTGCC 60
GGGCTGGTGG CCAGTNTTTC CACCTCCCTG GCAGTCAGGC CTAGAGGCTG GCGTCTGTGC 120
AGTTGGGGGA GGCAGTAGAC ACGGGACAGG CTTTATNATT TATTTTNNAG CATGAAAGAC 180
CAAACGTATC GAGAGCTGGG CTGGGCTGGG CTGGTGTGGC TGCTGAAGCC CCACAGCTGT 240
GGGCTGCTGA AGTCAGCTCC GCGGGGGAGC TGCCCTGACG TCAGCAGACC GAGACCAGTC 300
CCAGTTCCAG GGGGAGGCCT GCAGGCNCTG GCCCTTCCAC CACCTNTGCC CTNCGTCTGC 360

AGANCTTGGT NCATCTGCAC CAGGCTCTGC TTNACTCINN NANAGTNTTT GGAAATTTGT 420
TCTNNTCCTN TGAAAGTCAC ATTTGNTTNT AAAAATTTTG TGGNTTGAAT CGGAAACGGG 480
AAGNAATAAA GCGGTGGGNG GNAGGGCAAA 510

SEQ ID NO:486

LENGTH:507

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00542

SEQUENCE DESCRIPTION:

GATCCTTACA TCTGCCCATT CTGTGGTTAG TCAATGGCTT GCAATAAATG TGCAAACGTC 60
ATCTATAGGA AACATTTTGT TGATTACGGA ATACTTTAGT TGATTGCTGA AAATATTGAA 120
AGGTCTTCAT TTTACAGTGA TGAGTACATA TGCATGTTTC GGGGACTTGG CCCTTCTGAT 180
GAGGGGCCCT CGGTACTCTG GATAACGAAG CTTGTGCAGA GTGGAACCA TGCTTACACA 240
CTAAACTATA ATATAAGGA AATGAAGCCA TGTTAATCTG AGAGCAGTGT CGCCATAGTT 300
GTGTTGTTTA CAATACTCTA TAAATGGGGT TCCTGTTGCC CTGTAATTAA CCTGCTGCCC 360
GTAGAGGCCT TTCCAGTTCC TTTTCTGTCC TTNCCCCTTT CTTAACACAA GCTCAAATTT 420
TCCTAACTNG GTTTTNNATT TGGAGGNCTT TTAANAANGN CCATTTTCAA TACCATNAAA 480
ANTAACCAGG GCTTTATAAT ANTAAA 507

SEQ ID NO:487

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00543

SEQUENCE DESCRIPTION:

GATCCACTAC CGGAAGAAGA AACAGCTCAT NAGGCTACGG AAACAGGCCG AGAAGAACGT 60
NGAGAAGAAA ATTGACAAAT ACACAGAGGT CCTCAAGACC CACGGACTCC TGGTCTTAGC 120
CCAATAAAGA CTGTTAATTC CTCAAAAAAA NGAAA 155

SEQ ID NO:488

LENGTH:499

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00544

SEQUENCE DESCRIPTION:

GATCTTAAAA ACTAACTTCT AAGATGATTT CATCTTCTCA TAGTATAGAG TTTACTTTGT 60
ACACGTTTGA AACCAACTAC TGTAAGAT GAGGAATCTA TTGTAATTTT TTGCTTTATT 120
TTCTCTGCC AGTGGACTTA TTTGAAATTT TCACTTTAGT CAAATNATTT TTNGTATTAG 180
TTTTTGATGC AGACATAAAA ATAGCAATCA TTTTAAATNG TCAAAATTTT CAGATTACTG 240
GTAAAAATTA TTTGAAAACA AACTTATGGG TAATAAAGGC TAGTCAGAAC CNTATACCAT 300
AAAGTGAGT TACCATACAG ATTAATATGT AGCAAAANTG TATGCTTGAT ATTNCTCACC 360
NGTGNTAATG TTNCTGCNGT ATTCCAGCNG ACCAAACCAA TATTAAGNAT GCATCTGTAT 420
AAAAATGGGNG CCTATNGGNT AATGGGAATN ATTNGGGTAA TNGGCCTNTA CCNGGNTGGT 480
NATAATGGNG CCCTNTGGN 499

SEQ ID NO:489

LENGTH:516

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00545

SEQUENCE DESCRIPTION:

GATCTACCCC GGACACGGGA GCGCTACGC CAGGNCCGAC GGGAAGGTTT TCCAGTTTCT 60
TAATGCGAAA TGCGAGTCGG CTTTCCTTTC CAAGAGGAAT CCTCGGCAGA TAAACTGGAC 120
TGTCCTCTAC AGAAGGAAGC AAAAAAGGG ACAGTCGGAA GAAATTCAAA AGAAAAGAAC 180
CCGCCGAGCA GTCAAATTCC AGAGGGCCAT TACTGGTGCA TCTTTTGCTG ATATAATGGC 240
CAAGAGGAAT CAGAAACCTG AAGTTAGAAA GGCTCAACGA GAACAAGCTA TCAGGGCTGC 300
TAAGGNAGCA AAANAGGGCT AAGCAAGCAT CTAAGGNC TTGCAAATGG CTGCTTGCTA 360
AGGCACCTTC AAAGGGCAGC ACCTTAGGCN AAAAGGATTT GTNTAAGCCN TGTGAAAAG 420
TTTCCAGCTT CCCCNTTTT TGGTTGGGAA NNGGNTAAAC CTTGGCAGGG TTTTGNTTTT 480
TTTAATTAAN AGGTTTGGGG TTTTAANCTN TTAA 516

SEQ ID NO:490

LENGTH:497

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00546

SEQUENCE DESCRIPTION:

GATCAAGCTG ACAGACCCNN CTCTGCTCTG ACCTGGAGGT CTCCACTCTG GTCAGCAAGT 60
ATCCAGACAT CAGGGATGAC CACATCGGTG CGCTNCTGGC TGTGCGTGGG GACGCCAGCC 120
GTGACATGAA GCAGACCATC ATGGAGACCC TGGAGCAGGG CCCAGCACAG GCCAGCCCCA 180
GCTACGTGCC CCTCTTCAAG GACATTGTGG TGCCAGCTG AACGTGGCCA AGCTGCTCAA 240
GTAGCCTCCG CGGNTGCCT GCTCGCCCTC CACAGCTNGG TCCTGCTTTA GAACGCGGGC 300
AGTNATTGTC TCTTGGCACA CGTGTCTTT TAGTGACGGC TGTNTTATAG TGCANTGTNA 360
TGACNNGGTG TCGTCGAGT GANGTCNGAG GGCACGTGCG GAGGCNGTAN TTTGCTGTAA 420
AGGCTGTGGG TTCAGNNTT NCNGACAGCG TTNNTTGGGT GTTGTNTTC AGNGGTGAAG 480
TGTTNNGGAA AGNGNCN 497

SEQ ID NO:491

LENGTH:494

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00547

SEQUENCE DESCRIPTION:

GATCCAAGAA ACAATTCTG ATAATTGTGT GGTGATTTN TCAAAAACAT CCTGTTCTTA 60
CTGTACAATG GCAAAAAAGC TTTTCCATGA CATGAATGTT AACTATAAAG TGGTGGAAGT 120
GGACCTGCTT GAATATGGAA ACCAGTCCA AGATGCTCTT TACAAAATGA CTGGTGAAAG 180
ANCTGTCCA AGANTATTTG TCAATGGTAC TTTTATTGGA GGTGCAACTG AACTCATAG 240
GCTTCACAAA GAAGGAAAAT TGCTCCCACT AGTTCATCAG TGTTATTTAA NNNNAAGTAA 300
GAGGAAAGAA TTTCACTGAT GTTTATACTA ATAAGTTTGC TAGTACAGTG TCAGTTATTT 360

AAAGTGGTAA TGCCCGNTAA TGTCTTTTAA ATGTTTTGAG GGATGTTTAA AAATACATGC 420
NATTGTCTTC ACGGAGGAGG GNTGTAAAAA TTANTGGGCC AATAAATTGC GGGTGGGAAN 480
CCNTNTTCTT NAAA 494

SEQ ID NO:492

LENGTH:489

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00548

SEQUENCE DESCRIPTION:

GATCTTGACG AGGCTGCGGT GTCTGCTGCT ATTCTCCGAG CTTGCAATG CCGCCTAAGG 60
ACGACAAGAA GAAGAAGGAC GCTGGAAAGT CGGCCAAGAA AGACAAAGAC CCAGTGAACA 120
AATCCGGGGG CAAGGCCAAA AAGAAGAAGT GGTCCAAAGG CAAAGTTCGG GACAAGCTCA 180
ATAACTTAGT CTTGTTTGAC AANGNTACCT ATGATAAACT CTTTAAGGAA GTTNCCAAC 240
ATANAATTAT AACCNNAGCT GTGGTCTCTG AGAGACTGAA GATTCGAGGC TCCCTGGCCA 300
GGGCAGCCNT TCAGGAGCTC CTTANGTAAA GGNCTTATCA AACTGGTTTC AAAGCACTGA 360
GCTCANGTAA TTTACACCAG AANTACCANG GGTNGAGATG CTCCAGCTTG CTTGTGAAGA 420
TGCATGATTA GGTCCACCAG CTGTACATTT GGAAGAANTA NANCTTNTGT TAAATCAATG 480
GNGTNAAA 489

SEQ ID NO:493

LENGTH:487

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00549

SEQUENCE DESCRIPTION:

GATCCTCTGN CACGGGATAA ATTNACAGN GAAGAGTGAG GTTGTCATGG CCTCAGCTAT 60
GCTTCNNGC TCTCCCTCAA GAGTGCAACC TTGGCTAGAG AACTCACAGC TCTGGGAAAA 120
AGAGGAGCAG ACAGGGTTCC CTGGGCCCAG TCTCAGCCCA GCCACTGATG CTGGATGACC 180
TTGGCCTGAC CCTGGTCTGG TCTCANAATC ACTTTTCCCA TCTGTAAAAT TGAGATGAAT 240
TTTNGTGTG AAAGTNCCTC CNNGAGCAGA TGTCCTAGAA GGTTTTAGGA ATAGTGACAG 300
AGTCAGGNCA CCCNAAGGGC CATGGGGAGC CAGCTGACCT GCTTNGCCGA AGGATTCTG 360
ACAGACTATC TTTGGGGATG TTTTCAAAGA AGGGATATAG GTTATTGACN TNNGGGCATT 420
TAAAGNAAAT TNTNTCTCGG GGATTAANTT TTTAGGANAA TNAAAGCTTT NGTGTCTANN 480
GGCAAGN 487

SEQ ID NO:494

LENGTH:481

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00551

SEQUENCE DESCRIPTION:

GATCCCCAGC TGCCACTGAA TCTGGCTGCC CTTAGGCC ACCTGGCCCA GGAGAACCGT 60
GTGGTGGCCT TCTTCAGCCT GGCTCTACTG CTTGCCCCAC TGGTGGAGAC GCTTATTCTA 120
CTGGACCGGC TGCTGTACCT TCAGGAACAG GGTTCCTATG CTGAGCTCCT GCCCATCTTC 180

AGTCCTGAAC TCTCTCCCAG AAACCTGGTT CTGGTGGCCA CCAAGATGCC CCTGGGTCAG 240
 GCTCTTTNTG TTCTGGAGAC TGAAGACAGC TGATGCAGCC TGAGGAGACA TCTCAGACCC 300
 CATCATCTGA AAGTGNCCAG AGAGCACAGT GGCAGAGTAC ATCTNATCCA GAGAAACAGC 360
 ATCCTGCATC CTCCAGAGTC CTGGTTCCTT CAAGTTTCAT CNCTTTTNTC TCCTTTCCAT 420
 GGGNTTATGT AAATACAATT GTAAAGTTTT AATTAAATTA AAAAATTGGG TTATCTGGAA 480
 A 481

SEQ ID NO:495

LENGTH:472

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00552

SEQUENCE DESCRIPTION:

GATCTAAGCT CCAGGCACGC CTGAAGATGT GTTGCTACTC TNACATCCCG AGTTTCTGTC 60
 CACACATTGC ATGCACAGCG CCCACACAT TGGATACTGT TGTTCACGAT AATTTCTCCC 120
 GTTTTCCAGA GCATTTAACA TAGCTTGGAG GCGTAAATG GCTCTGTATT TTAATAACAC 180
 AGAAACATTT GAGCATTGTA TTTCTCGCAT CCCTTCTCGT GAGCNCTTAG ACCTTTTNCT 240
 ATTTTAGTCG GATTTTGTTT TGGAATTTTG CTTTNGTATG AACACTCAGC AGAAAAGTAC 300
 TTACTTCTNG CCAGTTATCT ATTAACCAAA ACCNTTGATT TGTAAGTTTA AAGNTTAACC 360
 GNCAAAGTTC TNTNCATAAC TGCCTTGGCC AGTNNGGGGT NGTNCCGGTN CTGGTTAATN 420
 GCCTGTGGCN TTTTNGGTGG TTTGTGNTTG GTNTTTACNT GNGCANTTAA GN 472

SEQ ID NO:496

LENGTH:461

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00553

SEQUENCE DESCRIPTION:

GATCAACCAA TTTNCTAAAG AGTTCAGTCG AAAGCTTTTA AGTATAGCTT CCTCCCTTGA 60
 AAAAAATGT AACTATGAC TGCTGAGTGA TAAACACTG TGGTGTGAAA GTNTCATCTT 120
 CACTGCCAAT CAGGCAAAGA CCGGAAAGAT TTGCATTTTA TTATGTCTGT CTTATCATGC 180
 AATGGAAATN ATGCTTTTNG TAAGTATGCA TCTTACCAAT GATGTAACGG TTAATACCN 240
 TTGAATGTTT TAATAACCAA GTNGCTGCTG AACTTATACT AAATCAGGGG CCAAAAAACT 300
 NGCTCTNATC NNCTCAAATN GTATNCNATA TCCATTAATG TATCAGTTAT NCCAAAGCCT 360
 TCAGGTGGAG GGGTTTACCA CCNTCCTAGG TCGTTCAACC AGGTTTTGTG AGGAATGCAT 420
 TCAAAGTGGC TNTATAAAAG ANGATTTTCT TTAGCATGAA A 461

SEQ ID NO:497

LENGTH:459

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00554

SEQUENCE DESCRIPTION:

GATCCCAAAA TTCCACTTTT CAACACAGAT GTGGACAACC TAGAAGGGAA GACACCACCA 60
 GTTTTNTCTT CTAAAGGCAA ATACAGGGCT CTGAAAATGG ATTTTCCTCT ACCCCTTCT 120

ACTTACGNCA CCATGGCCAT TCGAGAAGTG CTAAAAATGG ATACCAGTAT CAAGAACCAG 180
 ACGCAGCTGA ATACAACCTG GCTTCGCTGA GCAGTACCTT GTCCACAGAT TAGAAAACGT 240
 ACACAAGTGT TTGCTTCCTG GCTCCCTGTG CATTTTTGTN TTAGTTCAGA CTCATATATG 300
 GATTTCAAAT CTTTGTAATA AAAATTATTT GTATTTTAA GTNTTTATTA GCTTAAAGAA 360
 ATAATTNGCA ATATTNGTAC ATGTACACAA AATNCNGGAG GTTCTTANTT TTAGCTCAGG 420
 NTATAAATNA GTCAAATNCN NNGGTNNNGG NTNNGNTGN 459

SEQ ID NO:498

LENGTH:481

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00555

SEQUENCE DESCRIPTION:

GATCCAGCAG AGAAGGATGA AAAGGGCATG CCTGTGACAG CTCGTGTGGT GTTTGTTTTT 60
 GGTCTGATA AGAAGCTGAA GCTGTCTATC CTCTACCCAG CTACCACTGG CAGGAACTTT 120
 GATGAGATTC TCAGGGTAGT CATCTCTCTC CAGCTGACAG CAGAAAAAAG GGTGGCCACC 180
 CCAGTTGATT GGAAGGATGG GGATAGTGTG ATGGTCCTTC CAACCATCCC TGAAGAAGAA 240
 GCCAAAAAAC TTTCCCGAA AGGAGTCTTC ACCAAAGAGC TCCCATCTGG CAAGAAATAC 300
 CTCCGCTACA CACCCAGCC TTAAGTCTCT TGGAGAAGCT GGTGCTGTNA GCCAGAGGAT 360
 GTCAGCTGCC AATTGTGTTT TCCTGCAGCA ATTCCATAAA CACATCCTGG GTGTCATCAC 420
 AGCCAAGTTT TTTANGGTTN CTATACCAAT GGGTTTATTT AAATGAAAAT GGGCACTTAA 480
 A 481

SEQ ID NO:499

LENGTH:453

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00556

SEQUENCE DESCRIPTION:

GATCCAGATG CAGAGGCCAG GATGTGGGCC CAGCCCTGTG CCAGGAGGCT GGCTGGAATA 60
 AAGGTACAGA TAGAGGCTC ACCCCCTCTG GGACCACTGG CACTCAGGGT GTTTCAGCC 120
 TCAGAGCCCA CCTGCCCCCA GGGCCACAGC TGCATCTCCT GCCCTGCTGT CATTACAGGG 180
 ATGGGCAGGC TGGCATGGGG GCACCCGCTG CCCCTGCCTG GNTGTTGCTG TGTATTCCTG 240
 CCGGCCAGGG GCACTGCCAG GACCACGCCT CCNTTTTAT ATCCNGATTC TTAAGTTCTG 300
 CTATTGTGGT ATTCTGGTGG AGAAAAAAGA CCGNGTGGCT GTTTTGAAC TGCCTGGAAC 360
 CTAAGACCCT GAATTCTTTT CCCCCAAGG GAAAATCTAT ATGGAACAT TTATTTAAAT 420
 ACAGGATGAA GTAATTAAAA GNTTTAATTC AAA 453

SEQ ID NO:500

LENGTH:446

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00557

SEQUENCE DESCRIPTION:

GATCAAAGTT GGCAAGGTGC GGAATCGAGA CATGGGCGGC TACAGACCAC AACCGACTTC 60

ATCAAGTCTG TCATCGGTCA CCTGCAGACT AAAGGGAGCT AGAGCCCTTT ATTTCTTCCA 120
ACCTTGCAAG GACCACACTN CCCATACCNT TCAGTGCAGT GTACCAGGGA AGAGCCTTGT 180
GCCTCTAAGC AGTGGACCAT GGTACCTTG CTGGGTAGAG CCTAGGTTGT CCTTGGGCCG 240
GCTTCCTTAG GGGACAGACT NTTGGGTGGT GATGGGGATT GTAGGATGGA GCCAGGCACA 300
TGGATGATGA TGATTCTCCC NCACAGGTTT GAACCTCTGA CATGGGTGGC TATGCTACTN 360
GCNATGCTTA NTGAGGNTGT CATTGCTGCT TTNCCNAACC ATAGGCCTGT CATACNNTGT 420
AAGGNGTCAA TAAGGACATG ACCAAA 446

SEQ ID NO:501

LENGTH:434

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00558

SEQUENCE DESCRIPTION:

GATCCAATTC AGGTTAGGCT TGTTTGATTT TTTTTCAG AAAATGTATT CCATAAAGTT 60
TGTAAGTAGA CCAGACGGGT GTACTAAGAA TCATTCATGA GTAAATGTGT GTTGAATATC 120
TACCCTTGAC CTTTTTTTGA GAAATAGAGT AAACACAGTC CCTGTAGTCT GACAGCTAAT 180
GGGGAGAGAG GGTAGACTTT TCATCGAATT AAATTTCTAC ATGCACCTTT CCCCCAGAAA 240
TCTTACTCAT GGCTGGTCTC AAGTAAGTCT TTATTGAAAA ATATNGACAT ATCTNCTTCC 300
TCTTCCTTCT CCTCACTGTC TTCCTTTTAG TAGTTAGGCA GAGTTAATAG GTAAGAAAAA 360
TTATCTGCAT TTATGTGTAG TTTGTAATCT ACTAAAGGGG TTCTAGAATA AATGTNGNCA 420
TNTNGTAACN GAAA 434

SEQ ID NO:502

LENGTH:430

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00560

SEQUENCE DESCRIPTION:

GATCAAACAG GTTCAAAGTA AAACGTTAAA TTTCACATTT NTTTTAAAGA ACTCTTAAAG 60
TGTAACAGTT ACGCCATACT TCATAAGTGG TAAAGAAAAG TATAAAATTT GGAAACATTT 120
TGTTGGGCAT AGTAGTGATT GGGTGAAAAG GATAAATTAT ATCAAAATGA GAATGTNCTG 180
TAATTGGAAG TAGGGAGCTA AAGGATGTTT CTTTCAGTTT AGTAGAACTG GAACGTTTTA 240
CTATTAAACA TGGCTTTTAT AAATNCATGG TCCAATAATT TTATTCAGTG TTAGTATTTA 300
ATTCACTGTC AGCTTATTAA TGTTTCTGT ACCCATTAAT GAATTTTAAA TTACAAAAAA 360
TTGTCTAGCA GCTCCAGTT TAANAAATGG AACCTAGGCC ATTAAATTA AATTTGGTAA 420
ATTTTTTAAA 430

SEQ ID NO:503

LENGTH:428

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00561

SEQUENCE DESCRIPTION:

GATCCTAAAT GTGTTGCTGA AATCAGGCAG CCGAGCCTC TGGTCTCTCC AGAGAGCCCG 60

TNTTCACATT TGTNTATTCC TCAGCACTCA CCCGAAACTG AACAGATGGG GAGTGGTCTT 120
 GATTGTCAAG ATAAACTGG TGAAGAAAGC TAAATGCTGA GAAACTGAGC ATCTATTGTG 180
 GTGTTTAAGC TTAGCTGGGT CCTTTCTAGT TTGTTTTTAC AGCTTACTAG GTGAAGTAGT 240
 TTGCACTATT TTNGCAATAA ATTCATGGAA AACCTAACAG TTACTNGTNT NGTTTCTNAC 300
 TGTGTGTATA TAANCTAATA CTAAANGTNT GGCATAGTGT TTNTGCACCT NCNTACATAA 360
 CCNCTAACAT GCACAGAATG CTGGTAAATN TGATAAANTA TGANGTGANT GATGATNNGA 420
 TANAGTGN 428

SEQ ID NO:504

LENGTH:422

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00562

SEQUENCE DESCRIPTION:

GATCCTCACC CTCCTGAGGC CCAGTGGGGA AGAATGAACA TGGCTTCATC CAGGTAACT 60
 NATGCTGCCA TTTGCCAGC CTCTTCCATC CCAGCCCTGT CAGTNAGCCC AGGTCTGGTG 120
 CAACTNCTGC AGGATGCCTG TAGTAGGGAA CTCTGGAAGT GTATTGGGCT GAGGTGGGAT 180
 TTTCCCTCCC CACAGTGCAC TGAGCAATGG AGGGTGGTGA GGGAGCCATG CTGCTGAATT 240
 CTGTTGGCA TTTCCCATT ATGTAAATG GGGTGTGGG TAGGGCAGAC TCTGCTTGGG 300
 TTTGGTTGTA AGATAAACCT GGAGGAGAAG CACAGTTGTC CCATTGAATT ATTTGAGCAA 360
 AAATACTGT AAATAACTTT TTTGGGCTNT TGTCAAATAA AATTTTTTTT TGTTNTTTA 420
 AA 422

SEQ ID NO:505

LENGTH:417

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00564

SEQUENCE DESCRIPTION:

GATCTGATTC AGAAGGGCGT CATCCAACAC AAAGAGAAAT GCAACCAATG AAGAATCAAG 60
 CCACTGAGGC AGGGCAGAGG GACCTTTGAT AGGCTACGAT ACTATTTTCC TGTGCATCAC 120
 ACTTAACTCA TCTAACTNNT TCCCGGACA CCCTCCACCT CTAGTTGTTA CTAAGTAGCT 180
 GCAGTAGGCA TTGCTGGGGA AGAAACAAAC ACACACCAA CAGTACTGCT ACTTAGTTTC 240
 TAAGGCTGCA CAGGGAAGGG AAAGACTGGG CTTTGGACAA TCTAGAGGTA ATTTATATCC 300
 GCCCCAGGT GGAGCAACAT GCGATTNTGG AGGCACGGGG GTAAGTAAA GTGAGTACAT 360
 ATAGTNTTTC TGGTTTCTGG GGATAACCCA TCAATAAAAG CTGCTTCCTC TNGTAAA 417

SEQ ID NO:506

LENGTH:421

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00565

SEQUENCE DESCRIPTION:

GATCTTCTTT ATAATTCTAC TTTGAGTGCT GTCTCCATGT TTGATGTATC TNAGCAGGTT 60
 GCTCCACAGG TAGCTCTAGG AGGGCTGGCA ACTTAGAGGT GGGGAGCAGA GAATTCTCTT 120

ATCCAACATC AACATCTTGG TCAGATTTGA ACTCTTCAAT CTCTTGCACT CAAAGCTTGT 180
 TAAGATAGTT AAGCGTGCAT AAGTAACTT CCAATTTACA TACTCTGCTT AGAATTGGG 240
 GGAAAATTTA GAAATATAAT TGACAGGATT ATTGGAAATT TGTATAATG AATGAAACAT 300
 TTTGTCATAT AAGATTCNNT ATTTACTTCT TATACATTTG ATAAAGTAAG GCATGGTTGT 360
 GGGTAAANCT GGGTTTATTT TTNGTTCCAC AAGTTAAATA AAATCCATAA AACCTTGGA 420
 A 421

SEQ ID NO:507

LENGTH:413

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00567

SEQUENCE DESCRIPTION:

GATCCCANAC TGGTCNTTGA ACAGACAGAA GGANGTAAAG GNTGGAACT ACAGCCAGGT 60
 GTGTACTGAA ATNAGGGCAG GATTAGAGGA AGGGTGGAGG GTCCTAACAG AATTGGGCAT 120
 AGGAGGTCAG GGGATAAAAC ATCCCTTGCC CCCTCCTCTG AATCCAGGNC CTAGCCAATG 180
 GNCTGGACAA CAAGCTCCGT GAAGACCTGG AGCGACTNAA GAAGATTCGG GCCCATAGAG 240
 GGCTGCGTCA CTTCTGGGGG TGAGTGGGGG GTCTCATCTC CCTGCCTACC TCGACTCAGC 300
 ATTCCTCCTA CTCGNTCTTC TTNTTTTCCC AACCTTTTGT TTTCTTGCTT GTNCATGACC 360
 TNGTGACTTN TTCNTNTTTT TACCNTGCAN GCCTTTNGTN GTCCTAGGGN CAN 413

SEQ ID NO:508

LENGTH:407

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00568

SEQUENCE DESCRIPTION:

GATCTNAGGG TGAACCACTT CATTCTGCAG GGTTCTCCCT CCCACCTTAA AGAAGTTCCC 60
 CTTATGTGGG TTGCCTGGTG AATGGCCTTC CTTCCCGCCA NAGGGCTTGT AAACAGACCG 120
 GAGAGGACAG TGGATTGTTT ATACTCCAGT GTACATAGTG TAATGTAGCG TGTTTACATG 180
 TGTAGCCTAT GTTGTGGTCC ATCAGCCCCT CACATTCTTA GGGGTTTNG AGTCTGTAGG 240
 TGGTATGTGA CACCAAAGCC ACCTCTGTNA TTTGTNGTGA TGTCTTNTCT TGGCAAAAGC 300
 CTTGTGTATA TTTGTATATT ACACATTTGT ACAGAATTTN GGAAGATTTT CNAGTCTAGT 360
 TGCCAAATCT GGCTCCTTTA CCAAAGGAN ATTACCCTTG NGGNAAA 407

SEQ ID NO:509

LENGTH:402

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00569

SEQUENCE DESCRIPTION:

GATCAAACAG TTTCTGGAGT GTGCCCAGAA CCAGGGTGAC ATCAAGCTCT GTGAGGGTTT 60
 CAATGAGGTG CTGCANCAGT GCCGACTTGC AAACGGATTG GCCTAATGAA GAAGTTCAAC 120
 CTGGAGAGAT GGAAAATCAG CTCTCATAAC TANGTTAATT TAGTATAAAA NTAGAATTGA 180
 TAGTGAGGGT ATAAAGTGTA ACCATCAGTT AAACCTCTCC TGTCATTCTT GGCTTCCTTG 240

CTTCAGANTT GAAATGGAAG TGGGGGTGTC CCTACTCTGT AGAATCTGGG NCTGGGC AAA 300
TGTTTGTGTT GCCTCCTTAA ACTAGCTGTT ATGTTATGAT TTTTNTTCTT TGTGAGTTAA 360
TTAGGAATAA AGTCATTTTC TTTCCAAGGG TATGGTTCCA AA 402

SEQ ID NO:510

LENGTH:396

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00571

SEQUENCE DESCRIPTION:

GATCATGAGA AGGAATGGAA ACTAGGCCGG TGCATTTTAC GGTTCCCTGA GATTCTGCAA 60
AAGATTTTAG ATGACTTATT TCTCCACACT CTCTGTGATT ATATATATGA GCTGGCAACT 120
GCTTTCACAG AGTTCATATG TAGCTGCTAC TGTGTGGAGA AAGATAGACA GACTGGAAAA 180
ATATTGAAGG TGAACATGTG GCGTATNCTG CTATGTGAAG NAGTAGCTGC TGTCATGGCC 240
AAGGGGTTTG ATATCCTGGG AATAAAACCT GTCCAAAAGNA TGTAATCCTT CATAGGTTTG 300
ACACTGTGTG TTTTACCCAA GTGGCCATTG GNACTGTTTG CTTTTTTACA ATCATGTGGG 360
CACAAGCNTA AGAAAGGAAA TTNGCAACCA GGGAAA 396

SEQ ID NO:511

LENGTH:384

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00572

SEQUENCE DESCRIPTION:

GATCCAATCA GATGCAGAGA ATGTGGATAC AGAATAATGT ACAAGAAAAG GACTAAAAGA 60
TTGGNCGTTT TTATGCTCG ATGAATGCTG GGAATTCAGA GGAATGTNTT CACTTATACT 120
TGGATTTGCT CTCTTCCCAT TTCTGATTGT NGTATAGCTT TCGATTTTNC TTACAGTAGT 180
TCCCCCTTAT CTNCGGGAGA TACATTCCAA GGCCCCCAGT GAACTCCTGA AACCTCAAAC 240
AGTACCAAAC CTTTATACAC TGTTTTTTCC ATATATATAT ACCTATGATA AAGTATAATG 300
TATANNTTAA GCATAGCAAG AGATAATAAT AATGTNATAG NCCATTGNTA CNANCTATAN 360
TAANNGGTTA TGTGANTGTG AAAA 384

SEQ ID NO:512

LENGTH:383

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00573

SEQUENCE DESCRIPTION:

GATCAGAGCA AAACATGCAG AGCCCTTAGC AGAAACCCAC TTTAATGCAT TTTCTTCATA 60
TCCCTAAAGT TCCTTAAAAA TATGTGACAA TGCATCAGGA AGAGGAGAAC TGAAGAGTAG 120
AAGTTCCCTT GCAGATTTTT TTATCAGTGA CATGTAATGA GCAATTCACA GATGAGCGCA 180
GGCAGAGCTC TGTGTGCCGT GTACATATGG ACCGTGCTAT GATGTGTCTC ACATTGGATG 240
ATATTCCACT TTGGGAATTT TAGTATTTGT ATATAGAAAA TGGGTTTAAT AACTCACCAT 300
GGTTTTNATT NGTCTTATAT TCGTTATTTT TTAATACTCT NGTATGTGTT TTTATAATAA 360
ANAATAAAAG TAAGCCATGG AAA 383

SEQ ID NO:513

LENGTH:381

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00574

SEQUENCE DESCRIPTION:

GATCCAAAAT CATACTGTCA AGACCATCAA ACAAACAAA GAAGCTTAAG TGAAC TAAGC 60
ACAGGGAAAA GTTGT TTTT CACTCGTTCA TTTTGT CATC TGCTTCTAGA TGCTGCAATC 120
AAGAAGTAGC AAATGCCCAA GTTGCCATAG TGTTTGCAGG AAAAAAAGAG AAAAAATAAT 180
AAAAATAAGG AAGGAGCAAT GCCAAAAATT GAAGGAAATA TTATATAATT AANGCAAGAA 240
GNTATCTATC CATTGAGNGA AACAATTTT ATATTATTG CTTT TAGCNG CAAAGCATT A 300
GGAATTCTGA GATTGT TATA GACTAAGAA GGT TTNATT CTGTGTACAC ACTGGAAAAAT 360
TAAATTCTG GGTAAAGGAA A 381

SEQ ID NO:514

LENGTH:381

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00575

SEQUENCE DESCRIPTION:

GATCCCCCTG GAAGAGGGAC TCCAATGGGC ATGCCCCCTC CGGGAATGCG GCCTCCTCCC 60
CCTGGNATGC NAGGCNTTCT TTNACCCTTG GCCACAGAGT ATGGAAGTAG CTCCGCAGAG 120
GCGTGGGCTC GATTCTCTAG GGCCACGTTA CCACAGACCT GTTGT TTTCT NATGCTGTTG 180
TTCGTGGAGT CTCATGGGAT TGTNTGGTTT CCNTTACAGG GCCCNCTCCC CNGGGAATGC 240
GCCACCAAG GCCNTAGACT CATCTTGGCC NTCCTCAGCT CCCTGCCTGT TTCCGGTAAG 300
GCTGTACATA GTNCTTTTAT CTNCTTGTGG CCTATGAAAC TGGTTTATAA TAAACTNTTA 360
AGAGAACATT ATAATTGCAA A 381

SEQ ID NO:515

LENGTH:377

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00576

SEQUENCE DESCRIPTION:

GATCTGCGTG GGGCTGGTGG TGGTTGGTGT CCTGCTCATC ATCCTGATTG TNCTGCTGGT 60
CGTCTTTCTC CCTCAGAGCA GTGACAGCAG TAGTGCCCA CGGACCCAGG ATGCAGGCAT 120
TGCTCAGGG CCTGGGAACT GACCCAGCTG GTCCTGAAGG AGAAGCCAAA TGGCTGCACT 180
GGCCGATTCT GGTCTCCAGA GGACCTTGGT GTTTGCTCTC CTTGACCCA CCCCAGTNAG 240
TGCCAAAGGG CAGCCCCAAC ATGTGCACCC CTGCATTTC TGTCATGCCA CAGACTGGCC 300
CTTGAGGGCA GCCTGCTGTA CTGGCCATGC TGGGCCAGCC NCACCTGGAG CTCAGTAAAA 360
ACTGCTGTTT GATTA A 377

SEQ ID NO:516

LENGTH:375

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00577

SEQUENCE DESCRIPTION:

GATCACACCA GTTCAGAGAG CTACACTTTA TGGGTAACAG TTTCACCTGT NATACAGTTC 60
CCTAGAACAT TTTCCCAAAA GTAGTGAAGT GCAAAGTGCT TAGGTTTGAC ATTTATTGTA 120
GCAGAACAGT AATATCACAG TATGGGACAA AGGTTTACAC TTTGCAGGGT ATTCTTTGGG 180
GGAATGTAA ATACTGTAAT AAAACATGT TCAATCATGG TAAAATGTTC AACTNGTTAA 240
ANTTACAAAT GGNCAAAAAA NATTTTTTTC CTNATATATN GCCTAANTAC CAAATGAAGN 300
GCTTAANCTT AAGNTTCAAT GTGAAANCGA GTAAATNTGT TCCTAAATT GCAGNAATAA 360
NAGATANCCN GTANN 375

SEQ ID NO:517

LENGTH:374

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00578

SEQUENCE DESCRIPTION:

GATCCATGTA CTGTCATGTT TTTTTCAGG AACAAGCACA TCATGATTGA TTTGGGGACT 60
GGCAACAACA ACAAGATTAA CTGGGCCATG GAGGACAAGC AGGAGATGGT GGACATCATC 120
GAGACGGTGT ACCGCGGGGC CCGCAAAGGC CGCGGCCTGG TGGTGTCCC CAAGGACTAC 180
TCCACCAAGT ACCGCTACTG AGGCGCCTCA GTCTGCGCGG ATAAATGTCTG TGGAGCCCTT 240
TTGTATGGA AACGTTTTAA GCTATTTAA GCCTTTGGAA AATACAGGAN GTNCAGGGCT 300
GGAGCACCTC TGAGATGGAA TTGATAACAT GGTCTTAACT CACCGAAATA AACAAGCACG 360
TNGTGAGNGG NAAA 374

SEQ ID NO:518

LENGTH:374

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00579

SEQUENCE DESCRIPTION:

GATCTCACCG TGGGTCCGAT TAGCCTTNC TCTGCCTTGC TTGCTTGAGC TTCAGCGNAA 60
TTCGAAATGG CTGGCGGTAA GGCTGGAAAG GACTCCGGAA AGGCCAAGAC AAAGGCGGTT 120
TCCCGCTCGC AGAGAGCCGG CTTGCAGTTC CCAGTGGGCC GTATTCATCG ACACCTAAAA 180
TCTAGGACGA CCAGTCATGG ACGTGTGGGC GCGACTNCCG CTGTGTACAG CGCANCATCC 240
TGGAGTACCT NACCGCAGAG GTACTTNAAC TNGGCAGGNA AATTGCATCA AAANGACTTA 300
AAGGTNAAAN GGTTTACCC CTNGGTNANT TGCAACTTG GTTATTNGN TGGGGGATGA 360
AGGNTTTGGG TTNN 374

SEQ ID NO:519

LENGTH:372

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00580

SEQUENCE DESCRIPTION:

GATCAGAGAG ATTAGGATTG TATTTTGACA TAGGATTG AACCCTCTA AATGTTGAAG 60
 TTCCCTGAGA CAGCTCTCCA GCTGCTNNGC CTGCGCCAGG GGCTANGCAG CCCCTAATGA 120
 GAGGCTCTGC TCCCTTTCCC ACCTCGCCAA TGTTGTTGTT GCTGCCTTTT TGATTTGTAT 180
 CCTCTGTTAT AGACATTTTT NAAAAACGAT TTCCTCTTTC ATTGTGCACA AGTGCTGAGA 240
 GTCTNAGGCC CCATTCTGCT TGTGTATATA TATCCTGACT CGGGGCTTTT ATTCAGCAAA 300
 CTGTTTCAATC TTCTGTCAGA CAATGTCATA TTCAACTCTG TTCATATTAA ACCACTTGTN 360
 AAGCANTNNA AA 372

SEQ ID NO:520

LENGTH:371

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00581

SEQUENCE DESCRIPTION:

GATCTGGTCG CTGCCCCAGG GGGACTGATG GGCAGNGTCG CCCCTGTGGC TGGACTGTNA 60
 CCATCCCTGA TGGGGCTGA CCGCGGGAGC TGAGGAAGCG CCGCTCCACC GTCTGCCCTC 120
 CAAGGACCCG CATGGAGGCA GTGGGCTGGC AGCTTCCTGC TGCTCCGTGT NAGAGTCAAA 180
 GCACAAATCC TCAGGACGGG CTCAAGGGCC AGGGCAGCCG AGGGAAGTNC AGGTGGGGAC 240
 CACGTCTTCC TGAGGTTGGT GCCACTGCTT GGNACCGTTT GCAGTGGGGT GGCCTCCCCT 300
 CTGTTTGCNT GGTGNAGNNA GCGTGGCGTG GGGACGTGAC TGAATAAAGC ACCATGGGTG 360
 ATGTGTTGAA A 371

SEQ ID NO:521

LENGTH:382

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00582

SEQUENCE DESCRIPTION:

GATCTNTGGG ACGTCAGCTG CTGAGAGGAG CAAGCGGTAG TACCACCCCT TAGTTGAGGG 60
 AGTCAGCACA GTCCTTTCTG CAGCTTCTAA CCCAGGACCA TGAAGTCAAG TGCCTAGAGA 120
 AGCCAGGCAG CNNAAGGACA AGGAATGCTG GGGGCTGTGG GAACAGGAAT GCAGATACCC 180
 TTTGAAGGAG CATTCTGCT AAAAGAAGCT GAAAATGTAG ACCTATGTGA AGTGCTCTGA 240
 TTTCTAAATA TTGTGAAGGT TAAGAAAAAC ATANATTTN GGGTCTATGG GCTAGGATTN 300
 AGNCCCACAG TTGGCCANTT TNTAGGNGGT NCCCAAATGG ANTGGTTAAA CCNNNGGTTT 360
 NGNTTCCTAG CCTAGGGGTA AA 382

SEQ ID NO:522

LENGTH:382

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00583

SEQUENCE DESCRIPTION:

GATCAAGAAC AATGCCTCCA CTGACTATNA CCTATCTGAC AAGAGCATCA ACCCTCTGGN 60
 TGGCTTTNTC CACTATGGTG AAGTGACCAA TGAATTTNTC ATGCTGAAAG GCTGTGTGGT 120

GGGAACCAAG AAGCGGGTGC TCACCCTCCG CAAGTCCTTG CTGGTGCAGA CGAAGCGGCG 180
 GGCTCTGGAG AAGATTGACC TTAAGTTCAT TGACACCACC TCCAAGTTTG GCCATGGCCG 240
 NTTCCAGACC ATGGAGGAGA AGAAAGCATT CATGGGACCA CTGAAGAAAG ACCGAATTGC 300
 ANAGNGAAGA AGGAGCTTAA TGCCAGGNAC AGATTTTGCA GTTGGTGGNN GTCTCAATTA 360
 AGNGTTATTT NNCCACTGGA AA 382

SEQ ID NO:523

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00584

SEQUENCE DESCRIPTION:

GATCTCCAAG CNAACTCAGC CTCCANCCAA NCTCCCTGTG GGTCCCTAGCC ACAAGCTCTC 60
 CAACAATTAC TATTGCACTC GCAATGGCCG CCGGGAATCT NTGCCCCCTT CCATCATCAT 120
 CNCGTGCGAG AAGTCGCTGG TGTCAGGCAA GCCAGCAGAG AGCTCTGCTG TAGCTGCCAC 180
 TGAGAAGAAG NCGGTGACTC CAGCTCCTCC CATAAAGAGG TGGGAGCTGT CCTCGGACCA 240
 GCCTTACCNG TNACACTGCA CCCTNACGGC ACCNGACTAC TTTGCCTGCT TGGATTTCTT 300
 CCAGGGGAAT GTGACCTAAT TTATGNCAAA TACGTAGAGT CAGGTATCAC TTCTAGTTTA 360
 CTNTAAA 367

SEQ ID NO:524

LENGTH:365

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00585

SEQUENCE DESCRIPTION:

GATCAAGAGG AAAGAGAACG TAACAACCAG AACCCCTGGA CATTGAGCG AATAGCCACT 60
 GCCAACATGC TGGGCATACG GAAAGTACTG AGCCCATATN ACTTGACCCA CAAGGGGAAA 120
 TACTGGGGCA AGTTCTACAT GCCCAAACGT GTGTAGTGAG TGTAGGAGAT AACTGTATAT 180
 AGGCTACTGA AAGAAGGATT CTGCATTTCT ATTCCCCTCA GCCTACCCAC TGAAGTCTTT 240
 GGGTAGCTCT TAAGCCATAA CTAAGGAGCA GCATTTGAGT AGATTTCTGA AAAACAATGT 300
 TATTTGTTGA TTTAAAAAGA AACTGTATT NTTATTAAAT AAAATTTAAA CATCACTTCA 360
 GGAAA 365

SEQ ID NO:525

LENGTH:396

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00586

SEQUENCE DESCRIPTION:

GATCTATGGG TTGACTAATT AAACAATAAT TCAAGTAGAG TGTCCCAGAA AAAAACCCT 60
 TGGGCTCCCT GTTTGGAGTC TGGCTGGCTC TGAGCATTGC CAATGGCCCC TACTCACCTG 120
 ACTTTGTATC CTCTCCTTTT AGAGGCTTTG CATTCTGCAC CCAGCTTCAC TAACAGTGGG 180
 CTGAAAACAT CCTTGGGTTG AGTGTTCAT TTGGGAGTTA TTTGGCCAGG GCCTTTTGAA 240
 CAGTAGTGTC CCCATGAAGT GCTAGATAAT ATATGTGTAA GAGTCAGCTT TTTTTTTTTT 300

TAAACTNTAA CACCNTTNAG AANTTTCTAA CTACTIONGNA ACTGNATGGT TTANCCCGGN 360
GNTAAAAGCN GTTTTTAAAA GTNTANGTTT TCCAAA 396

SEQ ID NO:526

LENGTH:360

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00589

SEQUENCE DESCRIPTION:

GATCCGCGGG CTTCCACTNC ACCATCGGAT GTTTGCCACT CAGACTGAGG GGGAGCTCAG 60
AGTGACCCAA ATTCTCAAAG AAAAGTTTCC ACGAGCTACA GCTATAAAAG TCACTGACAT 120
TTCAGGCACT AAAAGAAGAA ATCAAAGAGA TGCATGGATT GCGGATATTT ACCTCTGTCC 180
CCAAACGCTG ACCACGGCCT GGCTGCATAG ATGCTGCTGC TTAAGACCTT GGATGAACTT 240
CACTGACATC ATTCTTCCCT AAGCAGTCAC CAAAAAATTT ATATATNTNG CTCATATACA 300
NTNCCATATN ATANTTATAG AAGATGTATA ATCTATTTTA GATGTNANTN AAAGGGTAAA 360

SEQ ID NO:527

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00590

SEQUENCE DESCRIPTION:

GATCGGGTTT GGCCCCCAGC CCCGCTCAGC CCAGTCCCTC TTCCTCTGCC GGGAGGGTGT 60
TTTCAACTCC AAACCCCAGA GAGGGGTGTG AGATTGGGTC CAGCTTTGCT TCAGTGTGTG 120
GAAATNTCTC GTGGGGTGGC ATCGGGGCTG CGGGGTGGGG ACCCCAAGGC TTTCTGGGGC 180
AGACCCTTGT CCTCTGGGAT GATGGGCACT GCTATCCACA GTCTCTGCCA GTTGGTTTAA 240
TTTNGAGGTT TNTGGGCTTT TTTTAAA 267

SEQ ID NO:528

LENGTH:352

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00591

SEQUENCE DESCRIPTION:

GATCAATCAC CTTCTGCTGC TTGGATGGGT GGATTTGGTG CTCAGCCTCC CCAAGGACAA 60
GCTCCTCCCC CTGTAATACC TCCTCCTAAC CAAGCCGGAT ATGGTATGGC AAGTTACCAA 120
ACACAGTGAG CCGGGACTCT AAAAAAAAAAT TGTAATTCAT GATAGGCTTC GATTCCTGT 180
GACACTCTGA AGACATGAAA GTAGACATCG GAAAATGNAA ATATTTATTT TAAAAATTGA 240
AATGTTTGA ACCTTTAGCA CAGATTTGCT TTGGTGAAGG ACACGTGTCT TCTAGTTCTG 300
CCTTTTNAAG GTTNTTGT CATGNTGGAT NTTGAACATN GNTTTTNTT TN 352

SEQ ID NO:529

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00592

SEQUENCE DESCRIPTION:

GATCAAGCCT TTCTTTCATT CCCTCTCTGA AAAGTATTCC AACGTGATAT TCCTTGAAGT 60
AGATGTGGAT GACTGTCAGG ATGTTGCTTC AGAGTGTGAA GTCAAATGCA TGCCAACATT 120
CCAGTTTTTT AAGAAGGGAC AAAAGGTGGG TGAATTTTCT GGAGCCAATA AGGAAAAGCT 180
TGAAGCCACC ATTAATGAAT TAGTCTAATC ATGTTTTCTG AAAACATAAC CAGCCATTGG 240
CTATTTAAAA CTTGTAATTT TTTTAATTA CAAAAATATA AAATATGAAG NCATAAACCC 300
AGTTGCCATC TGC GTGACCA ATAAACATT AATGCTAACC ACTTTTTTAA A 351

SEQ ID NO:530

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00593

SEQUENCE DESCRIPTION:

GATCCAGAAT ACCCTGACCT CGCCCCAGTT CCAGCAGGCC CTGGGCATGT NCAGCGCAGC 60
TTTGGCCTCG GGGCAGCTGG GCCCCTCAT GTGCCAGTNC GGTCTGCCTG CAGAGGCTGT 120
GGAGGCCGCC AACANGGGCG ATGTGGAAGC GTTTGCCAAA GCCATGCAGA ACAACGCCAA 180
GCCCAGCAG AAAGAGGGCG ACACGAAGGA CAAGAAGGAC GAAGAGGAGG ACATGAGCCT 240
GGACTGAGCC ACGCGCCGTC CTCCGAGGAA CTGGGCGNTT GCAGTGCCTT GCACACCTTN 300
ACCTTCNACN TACTGATTAT TAATAAGTT TTTCTTTTA CCTGCAAA 348

SEQ ID NO:531

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00594

SEQUENCE DESCRIPTION:

GATCCTGAAG AGATTGAAAA AGAAGAGCAG GCTGCTGCTG AGAAGGCAGT GACCAAGGAG 60
GAATTCAGG GTGAATGGAC TGCTCCCGCT CCTGAGTTCA CTGCTACTCA GCCTGAGGTT 120
GCAGACTGGT CTGAAGGTGT ACAGGTGCCC TCTGTGCCTA TTCAGCAATT CCCTACTGAA 180
GACTGGAGCG CTCAGCCTGC CACGGAAGAC TGGTCTGCAG CTCCCACTNG CTCAGGCCAC 240
TGAATGGGTA GGAGCAACCA CTGACTGGTC TTAAGCTGTT CTTGCATAGG CTCTTAAGCA 300
GCATGGAAAA ATGGTTGATG GAAAATAAAC ATCAGTTTCT ATTTAAA 347

SEQ ID NO:532

LENGTH:346

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00595

SEQUENCE DESCRIPTION:

GATCCGGTNT TGGTGCCAAT GTCTCCAACT TCACTTTTGC TCCTAGCACG ATTATATTTT 60
ACCTGGGACA TGCTGCTATG CTGGGACTCA TGTATGTCTA CTGGACTCAG CTCAACATGT 120
TCCAGACCTT GAAGTACCTG GCCATCTTGG GCAGTGTGAC GTTTCTGGCT GGCAATCGGA 180
TGCTGGCCCA GCAGGCAGTC AAGAGAACAG CACATTAGTT CCAGAAGAAA GATGGAAATT 240

CTGAAACTG AATGTCAAGA AAAGGAGTCA AGAACAATTC ACAGTATGAG AAGAAAAATG 300
GAAAAAATA CCTTTATTTA AAAANGAAAA AAGTCCAGNT TGTAAT 346

SEQ ID NO:533

LENGTH:346

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00596

SEQUENCE DESCRIPTION:

GATCTTGTAG CCTAGATAGG ATAGTNTGAC CTTCTAGCAT AGTCTTTTGG GCAAATNATT 60
TGTGTTTTCA GTGTGTGGGG AAGCTGTCCT GGGGGCTGGG GCGACAGATA GCACATAGGC 120
TGTTTCTGGG GCTGCAGGGG CTTCCNTGAG CTGGATGTTG TGGGTNTTGC CGTGCTTCAG 180
GAAGTNTGGC GACCAGAAAG CGTAGACCCG GGGCCCAGGG TCTGCCCCGC CCTGCAGCNT 240
GGCCTCCCCG CACAGGCTGT GGCTTGCACT CCAGCCGNTC TAGTNTCTNA GGAATTTNCT 300
TGTNACTTGT ACTGTGTAAA TAAAGCTTCC TGGTTCAATA CCNAAA 346

SEQ ID NO:534

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00597

SEQUENCE DESCRIPTION:

GATCCTATGG CCATGACCCA GAAGTATGAG GNGCATGTNC GGGAGAGCAG GCTCAAGTAG 60
AGAAGGAGGA CTTAGTGAC ATGGTGGCTG AGCACGCTGC CAAACAGAAG CAAAAAATAC 120
GGAAAGCTCA GCCCCAGGAC AGCCGTGGGG GCAGCAAGAA ATATAAGGNG TTCAAGTTTT 180
AGGTCCCCTC AACTAGCCC TTTTTTTGGC CCTACGTCTG GATGCCTGGG CTTACACAA 240
GAACCACCTC TCCCGCAGTT CCAAGGNCT TGTCATTTCA TGTTCTTATT TTAGACCTGT 300
TTTGTAATAA AAGCTGTTTC CCAAGGAAAG AGATGAATAT TTAAA 345

SEQ ID NO:535

LENGTH:354

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00598

SEQUENCE DESCRIPTION:

GATCGTGTAT ATGGTGAATC CAAGTTGGGA GGAAATGAAA TAGTATCTTT NTTGAAAGGA 60
ATATTGACTC TTTTGTCTAC TACATAAAAG AAAGATACTC ATTTATAGTT ACGTTCATTT 120
CAGGTAAAC ATGAAAGAAG CCTGGTACT GATTGTATA AAATGTACTC TTAAAGTATA 180
AAATATAAGG TAAGGTAAAT TTCATGCATC TTTTATGAA GACCACCTAT TTTATATTT 240
AAATTAATA ATTTAAAGT TGCTGGCCTA ATGAGCAATG TTCTCAATTT TCGTTTTTCAT 300
TTTGCTGTAT TGAGACCTAT AAATAAATGT ATATTNTTTT TTGCATAAAG TAAA 354

SEQ ID NO:536

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00599

SEQUENCE DESCRIPTION:

GATCCGTGAC AAGCGCACAG GCAAGACCAA GGGCTACGGC TTCGTCAGCT TCAAGGACCC 60
CAGCGACTAC GTGCGCGCCA TGCCTGAGAT GAATGGGAAG TATGTGGGCT CGCNCCCCAT 120
CAAGCTTCGC AAGANCATGT GGAAGGACCG GAATCTGGAC GTGGTCCGCA AGAAGCAGAA 180
GGAAAAGAAG AAGCTGGGCC TGAGATAGGG TCTGTGGCCA GGCACCCGCT CCCACCTGGC 240
CGGGCGCTGG CTCCTCCCTC AGTTCTCTTT GGGAAAACCC CCAGCTNGTC CACCCATCCN 300
NTGCCCCAAA ACCAGTTTCA GTAAATTAC GTTCATTTC AAA 343

SEQ ID NO:537

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00600

SEQUENCE DESCRIPTION:

GATCGAACGG ACTGTGAAAT CCGCTCTTTG TCGGAAGCTG AGCAAGCTGT GGCTTTTTTC 60
CAACTCCGTG TGACGTTTCT AAGTGTAAGT TGGTAGGACC CCGGCGGGTG TGGCAGCAAC 120
TGCCCTGGAG CCCAGCCCC TGCNTCCATC TGTGCTGTGC GCCCCACAGT AGACGTGCAG 180
ACGTCCCTGA NAGGTTCTTG AAGATGTTTA TTTATATTGT CCTTTTTTAC TGGAAGACGT 240
ACGCATACTC CATCGATGTT GTATTTGCAG TGGCTGAGGA ATTCTGTAC GCAGTTTTCT 300
TTGGCTTTAC GAAGCCGATT AAAAGACCGT GTGAAATGAA A 341

SEQ ID NO:538

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00601

SEQUENCE DESCRIPTION:

GATCCTCGGG TGTTCTTCCC ATCAGATAAA ATAGTTCAC TACAGACAGAT GTTTTTATCT 60
ACTGAACTAC AAAGAGTAGA AGAGCTTTAT GATTCAATTAT TACAAGCTGT TGCCTTCTAT 120
GANTTAGCAG TGTTTGACTC TCAGCCTTAG AATTCTGAGG TTAACGTGCT AAAGTATAAT 180
TNTTAGCTCT AACGTAACAC CAACTGTTGT GAACATCCAT GTTATTGGAA AAGAACACAT 240
TTTCAGTGTA TTTTAGATGT TTAANTCTG ACTTTTGGCT ATTAAATGGT TTACACAATA 300
AGCCAAGACC AAATCAATAA ACATTTNTG AGAACGAAA 339

SEQ ID NO:539

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00602

SEQUENCE DESCRIPTION:

GATCATCATC CGAGTGCAGA CCACGCCGGA CTACAGCCCC CAGGAAGCCT TTACCAACGC 60
CATCACCAGC CTCATCAGTG AGCTGTCCCT GCTGGAGGAG CGCTTTCGGG TGGCCATAAA 120
AGACAAGCAG GAAGGAATTG AGTAGGGGCC AGAGGGGGCT CTGCTCGGCC TGTGAGCCCC 180

GTCCTACCT GTGCCTGACC CTCCGCTCCA GGTACCACAC CGAGGAGAGC GGCCGGTCCC 240
AGCCATGGCC CGCNTTGTGG CCACCNCTCA CCCTGACACC GACGTGTCCT GTACATAGAT 300
TAGGTTTTAT ATTCCTAATA AAGTATAGCG GAAGAGAAA 339

SEQ ID NO:540

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00603

SEQUENCE DESCRIPTION:

GATCGTTATG AATATCAAAT GTCCATTCT ATNGTAATGA ATTCAGTGGA ACCATCACAC 60
AAAAGCACAC AAAGACCTCC TCCTCCACAG GGGAGACAGA GGTGGGGAGG CTCTCTTGGC 120
TCACATAATC GTGTCTGTGT CACAAATAAT CATTAAATTA GCTATTTTCA GCTAACACAT 180
TTGTNGTTGC ACTTGAAAAA GAGTTAGTGA GCCTGTCTTG GAGTTTAAAGT AGTTTCAAAT 240
AAAAAAGGC TACAGTGCCT CACAAAGGAT GTTCCCAGCA AGTNGTTTAA ATTCCCAGCA 300
AGTTGTTAAA GTGTAAATAN AANTATATGA ANTTGTAAA 339

SEQ ID NO:541

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00604

SEQUENCE DESCRIPTION:

GATCCTGAAA TCTACTAGAG ACACCCCTAA GCCATGAATG AACTACATCC AAATACCTGA 60
NTTTTTGGAA TCTGTTTCAT GGATTTTNCA TCTTCTACCG TATGTNAAAT TGCAAGTNTT 120
TGAAGATTTA TAAGTACAAA TTTGGGAACA TACAAATCTT TTAGGTAGTA GAGTTTAACG 180
TGTATAAGCT AAAAGTGAAA GTAAGTGAAG GTTCTCTTGT TTCTTTGCAT TAATGTAAGT 240
GTGTGGTTTG CCTTTGTCCT CCTGGATAGA ACGTGCATT AAAGAATATA TTGTACTTAC 300
TGTGACAGCA GATAATAAAC CAGTCTCTTG GAGGGCACAA CCCTTATTTG ACAA 355

SEQ ID NO:542

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00606

SEQUENCE DESCRIPTION:

GATCTTTTT ANATAAANNT TATGTATTGT GGCATAATCC TTTTTTTGAG CTCTACAGAG 60
AACAGTCTTT TGGTAATAGT GGCAGGTATT TATTCCTTCT GAATATATAC CCCATTATAG 120
GAATAACTGT TACTTATTTA GGATTCCATC ATTGAAAATT TTNACCCAAG GCACAGCAGT 180
GAANTTTATA GTNCTCANTT TAGTTGNCAT TATTGACAGG CATTGGNATT ATTAGTCATT 240
GCTAAGCAAC TAAAACTTCA TCAGTTCAAN TAAGTTTTAN TTGTCANATG GCNGTATAAN 300
CACATGANCT TTCTAGGAAA TATTCCTCN N 331

SEQ ID NO:543

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00607

SEQUENCE DESCRIPTION:

GATCGGTGTG CCCCCTGCG AGGGGCCCC CATGGGGCTG NTGGCCNTC CGCAGTCAGG 60
ACATCCCAAC CCCTGGNTGG GACTGAACCA CCCAGAGCGG AGGGCNTCCC TTTNAGCCT 120
TGTNAGTCAC CTGGCAGGCC CCAGCTGGGC TGGCTGTCCG TGTCCCTCAG CCTGGNTGGT 180
GATTCCTTGC AGGCCAGAAA TNAAGAGTCC CTGTAGGTTT TGGTTTTGTT TGTTTTATTT 240
TGTTCTTTCA CCTTTTTTCC TCATTAAAAA AAAAANGNCC CTGNGGAGTG TACTNATTNA 300
TTTTTTGATN AAAGGGANGT AAAATGNAAA 330

SEQ ID NO:544

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00608

SEQUENCE DESCRIPTION:

GATCCAGACT GTAAGATGTT GTTTTAGGGG CTAAAGGGGA GAAACTGAAA GTNTTTTACT 60
CTTTTTCTAA AGTGTGGTC TTTCTAATGT AGCTATTTTN NTGTTGCAT CTTTCTACT 120
TCAGTACACT TGGTGTACTG GGTTAATGGC TAGTACTGTA TTGNCNCTGT GAAAACATAT 180
TTNTGAAAAG AGTATGTAGT GGCTTCTTTT GAACTGTAG ATGCTGAATA TCTGTCCACT 240
TTTCAATCCC AATTCTGTCC CAATCTTACC AGATGCTACT GGAATTGAAT GGTTAATAAA 300
ACTGCACAGT GCTGTTGGTG GCAGTNAAA 329

SEQ ID NO:545

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00609

SEQUENCE DESCRIPTION:

GATCACTAGA TTTATGGAGG AATTNGTCAC AAATNACTTN TAGAAAAATG CTGTCATATA 60
GTTCAATTCA TCATTTTCTG TTGCAGGAAG CCACTCCACC ACAGAATGCT AATATGCCAG 120
TGGTACCCAG TACCTCTTGT ATATAGGTTA TTGCAAAATAT TGTNCTGAAA TGCTTAACTT 180
CAGAATTACA TTTTTTAAAG TAAATAATTG TTTTAAATCT ATTTTGTAAG GNTATAAAGT 240
ACAATAGAAT TTCTGGAGTA CAGATTAAAC TATTTGCACT AACACACGTG CCGTGCAATGA 300
TTTAATAAAA TANCTNNACT CTCNTAAA 329

SEQ ID NO:546

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00610

SEQUENCE DESCRIPTION:

GATCACCGTG TGCTCAGGCC AGGTGTGAAT CCTGAGGTCC ATGGAGGTGC AGAGATGAGA 60
TTACTCCTAT TCACGTTGAA GTGATTTGCT TTGTTAACAA AAAATTGCAG CTATTGTCTA 120

GCTTTCATTT TTTTACTGAG AACTTTAAAT TAGTCCCCTA TTAGAATAGG GTTGCTACTC 180
ANCTNTTTN AAAAACCGAA TTTCATCATT TATCTAAAGA GNAAATATGC AGANTAAGTG 240
GTCTTGTTAA GAGTGCAATA TTATATNNNN ANGTAAGAACT AAAANTNAAT TTGGGGGGGAT 300
TATTTATNCA GCATGANACC TANTNTGN 328

SEQ ID NO:547

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00611

SEQUENCE DESCRIPTION:

GATCCCNNGG ACGTGAGACT TANNCCTCCA GCCAGTGTGA ATCATTGTAT TTTGTCTCAT 60
AATCACAGCA CNCCTGCATG ACACAACAAC GTGCAGCATT TTTACATAA AAATATGGTA 120
GANTTAATTT ATGACATGGA AATGCCTTAC GTGGTATCAC ACTTAGTCTT GAAAAAACA 180
CCNAGGTGAC GTTAAAAATT TTAGTACAT ATCCTCAAAT TGGAGCTAAG TTATACTTCT 240
TTATAACCT TTTGGGCATC TGGTCGAGAG AAGACAAGAT TTTNTCTATT TACAGTGATG 300
CAATAAATAT GTTTGCCACC TTTGGAAA 328

SEQ ID NO:548

LENGTH:322

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00612

SEQUENCE DESCRIPTION:

GATCTTGAAG AGACCGCTGG CAGCACCAGT ATTCCAAGA GGAAGAAGTC TACACCCAAG 60
GAGGAAACAG TTAATNACCC TNAGGAGGCA GCCACAGAAG TGGCTCCAAG AAAANAGGA 120
ATTNTCCAAA GAGGAGCCGG TCAGCAGTGG NCCTGAAAGA GGCGGCTGGC AAGANCAGCT 180
CCAAGAAGAA GAAATGTTC CATAAAGCAT CCCAGGANGA TTAGAATCAA ATGGACANTC 240
TCTNGGAGGT GGNATACCA TAGNCCAAGG TNCATTTCCC ACCNTGTGCC GTGTTCCCAA 300
TAAANACAAA TTCACAAGGA AA 322

SEQ ID NO:549

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00614

SEQUENCE DESCRIPTION:

GATCCACCTA GCCTCAGCCT CCCAAAGTGC CGCCGGGATT ACAGGCGTNA ACACCATGAC 60
TGGCCTTCAT TATCTCTNTT TAAAAAATGA AAAAGTTTAT AATTACATT CAGTAAATC 120
ACCCTTTTTA GTGTCTAGTC TGTGAATTTT GACAAATGCA TGGTTTTGTA ACCAATCGAT 180
AGGNCAGTTC TGCCACCCAG GACATTCCCN TCTGTTCTC TGTTCTCTC TTCTCTGCC 240
CCCTAGCAAC CACTGGTGTT TTCTGTCCNT CTGGTTCATT TGACATTTAT TTTAAAATAA 300
AATATTTTAA AATCTAAA 318

SEQ ID NO:550

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00615

SEQUENCE DESCRIPTION:

GATCCTCACC GTGGAGGACC ATNATAATNA AGGTGGCATT GGTGAGGCTG TGTCCAGTGC 60
AGTAGTGGGC GAGCCTGGCA TCACTGTCAC CCACCTGGCA GTTAANCGGG TACCAAGAAG 120
TGGGAAGCCG GCTGAGCTGC TGAAGATGTT TGGTATCGAC AGGGATGCCA TTGCACAAGC 180
TGTGAGGGGC CTCATNACCA AGGCCTAGGG CGGGTATGAA GTGTGGGGCG GGGGTCTATA 240
CATTCCTGAG NTTCTGGGAA AGGTGCTCAA AGATGTACTG AGAGGAGGGG TAAATATATG 300
TTTNGNGNAN AATGCAAA 318

SEQ ID NO:551

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00616

SEQUENCE DESCRIPTION:

GATCCCCTCT CTGAAGAGAA AGGAGGAAAG AAAAGAAAAA AACAGAAACA GAAGCTCCTG 60
TTCAGCACCT CAGTCGTCCA CACCAAGTGA CACTACTGNN CCAGGCTACC TTCTCCATCT 120
GGTTTTNTTT TTTNTTTTTT TTTCCCCCAT GCTTTTGTTT GGNTGCTGTA ATTTAAAGT 180
ATTTGAGTTT GANCAGATTA GCTCTGGGGG GAGGGGGTTT CCACAATGTG AGGGGGAACC 240
AAGAAAATTT TAAATACAGT GTATTTTCCA GCTTCCTGTC TTTACACCAA AATAAAGTAT 300
TGACACAAGA GAAA 314

SEQ ID NO:552

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00617

SEQUENCE DESCRIPTION:

GATCCCTACT TGGNAGTTAA CCCTAACTAC TTGCTCGAAG ATTGAGATAG TGAAAGTAAC 60
TGACCAGAGC TGAGGAACTG TGGCACAGCA CCTCGTGGCC TGGAGCCNGG CTGGAGCTCT 120
GCTAGGGACA GAAGTNTTNC TGGAAGNNAT NCTTCCAGGA TTTNTTTTTC AGAAACAAGA 180
ATTGAGTTGA TGGTCTATG TNTCACATTC ATCACAGGTT TCATACCAAC ACAGGCTTCA 240
GCACTTCCTT NGGTGTGTTT CTNTCCCAGT GAAGNTGGAA CCAAATAATG TGAGTCTCT 300
ATANCCANTA CCN 313

SEQ ID NO:553

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00618

SEQUENCE DESCRIPTION:

GATCTTAGCT AGTTCATCAC TTCCTCAGGG AACATTCCC TAATTTCTGT CACAGAGTAA 60

GACCCGTTGT TATACGTCTC ACCTGACCAT GTACCTCTAC TTAGCATTTA ACACGTGTAA 120
 TTTTGTATGT ATTGGTTTGA TTAATGTCAG ANCCACTAGA TTGTAAACTC CATGAGGACC 180
 GGAATTTNGT TTCTGTCATT GTCATTGTTT AACTTTGTAT TTTTATGCC TCATACAGTG 240
 CCTGGCACAT AGTAGGTGCT CAATTAACTT NATTGAAAAG AATAAAATGA ATGGATGAGG 300
 TATCAAGAAA 310

SEQ ID NO:554

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00619

SEQUENCE DESCRIPTION:

GATCTGGGGG CCACCACCCT GTGCCGGTGG CCTCTGGGCT GCCTCCCGTG GTGTNAGGGC 60
 GGGGCTGGTG CTCATGGCAC TTCTCCTTG CTCCCACCCC TGGCAGCAGG GAAGGGCTTT 120
 GCCTGACAAC ACCCAGCTTT ATGTAAATAT TCTGCAGTTG TNACTTAGGA AGCCTGGGGA 180
 GGGCAGGGGT GCCCCATGGC TCCAGACTC TNTCTGTGCC GAGTGTATTA TAAAATCGTG 240
 GGGNAGATGC CCGGCCTGGN ATGCTGTTTG GAGACGGAAT AAATGNTTTC TCATTCAGTC 300
 TNCAGTCAAA 310

SEQ ID NO:555

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00620

SEQUENCE DESCRIPTION:

GATCCNGTGC TGAAAGAGAA ACCAAGAAAA AAGATGACAT TCCAGAAGAA GACAAAGGAA 60
 ATGTAAAACA ATGTGAAATC AATTATGTAA AGAAATTTCA GAGCTTCCAA GACCACAAAC 120
 TAAAAATAAG TAAAGANGAC AGTAAAATTN TAAAAAAGGC TCGGAAAGAT GGATTTTTGC 180
 ATGAGACGCT TCTGGACAGG NGAGCCAAAT TGAAAGCCGA CAGATACTGC AAGTNACTGG 240
 GATTTTTNTT TCTGCCTTAT CTTNCTGTNG TTTTTTCTGA NTAAATATT CAGAGGAATG 300
 CTTTTAAA 308

SEQ ID NO:556

LENGTH:300

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00621

SEQUENCE DESCRIPTION:

GATCTTCTTG AAGTNTCTCC CCGTTTNGTG CAGCTGGCCA TACCCAGGT GGACATNATG 60
 AGTCAGGCTG ACTTAATTNC TCATGAGCAG ACCATCCCAG TGAATGCAAA GGGCATGGGC 120
 TCCACAGCCT GGACCCTGGC ATGGAGTCCA GCNNCTGCT CACCGGCCAG GAGGCTGGG 180
 GCGGGGTCAC TTACCCTTNT NAGCCTCANT TTCTNTTCT GGAAGCGGAG ATGGTAATAG 240
 CTTTACATT NGAGGTGAAT GTNAGAATTA AACTGGGCA CATGGAGGAA TACACCTAAA 300

SEQ ID NO:557

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00622

SEQUENCE DESCRIPTION:

GATCACTTGT CCTATTACCC TATACCTAGC ACTTGTGACA CCACCCCTAA ATCACTTTGA 60
GCCTGGGAAA TAAGCCCCCT CAACTACCAT TCCTTCTTTA AACACTCTTC AGAGAAATCT 120
NCATTCTATT TCTNATGTAT AAAACTAGGA ATCCTCCAAC CAGGCTCCTG TGATAGAGTT 180
CTTTTAAGCC CAAGATTTTT TATTTGAGGG TTTTTGTTT TTTAAAAAA AATTGAACAA 240
AGACTACTAA TGACTTTGTT TGAATTATCC ACATGAAAAT AAAGAGCCAT AGTTTCAAA 299

SEQ ID NO:558

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00623

SEQUENCE DESCRIPTION:

GATCTGCTTC TCCAGTTTTT GAGGAGCCAG CCAGGGGTCC AGCACAGCCC TACCCGCCC 60
CAGTATCATG CGATGGTCCC CCACACCGGT TCCCTGAACC CCTCTGGAT TAAGGAAGAC 120
TGAAGACTAG CCCCTTTTTC TGGGAATAA CTTTCCTCCT CCCTGTGTTA ACTGGGGCTG 180
TTGGGGACAG TCGTGATTT CTCAGTGATT TCCTACAGTG TTGTTCCCTC CCTNAAGGCT 240
GGGAGGGTGN TAAACACCAA CCCAGGANTT CTCAATAANT TTTTNATTAC TAAACCTGAA 300
A 301

SEQ ID NO:559

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00624

SEQUENCE DESCRIPTION:

GATCAGATTT TGCTAAATGG AAATAATATA ACAATGCTGG TTCCTGGAGG AGAAGGACCT 60
GAAGTGTGAA TGAGTTTCCT TGA CTTACAC TAGATTTTGT TTTGGCTTAT AATGACAAGA 120
AAATGGAATT TTTTTTCCC ACTTTCTAAT GTTTAAATCC CATAAAGCTA AGTTTCCCGT 180
TAAAGGGAAG TGCTTTGAAG ATGTGTACCC ATTTTGTAA GTTAATCATG ATTATCCTGG 240
AAAAAGAAGA AAAGAGCTTC TTCTTTGCAG ATGAAAATAA AGGTGTTTTT GGTAA 297

SEQ ID NO:560

LENGTH:304

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00625

SEQUENCE DESCRIPTION:

GATCTATTTG TAGATTAGGA TTAAATGGA TTAAATCCAT TTTTAAGGCT GTGTGAATTT 60
TTCTAAACAA GAACCATTTG CAATATGGAT TTCTTAGAGA TTAAACCAAT TATACTTAT 120
TAGCAGTCGC GAGCACATGT TCATATAGTC AATGTAAAA TACACTAATG AGTATTTGGT 180

AAATCCCACT AGGCTTTTAC CATTAGCATA ATTTTGTGTT GTACAATTAA GTTACAATTA 240
CATCTCTAAT TTTGGATAAT ATTCATTGGT TAACANTANA GTGACAAAAG CTCATGCCTT 300
CAAA 304

SEQ ID NO:561

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00626

SEQUENCE DESCRIPTION:

GATCTGGAAC TTTGCACATG TCACTACTGG GGAGGTGTTT CTGCTCTAGC TTCCACGATG 60
AGGCGCCCTC TTTACCTATC CTCTCAATCA CTACTCTTCT TGAAGCACTA TTATTTATTC 120
TTCCGCTGTC TGCCTGCAGC AGTACTACTG TCAACATAGT GTAAATGGTT CTCAAAAGCT 180
TACCACTGTG GACTTGGTGT TAGCCACGCT GTTTACTCAT ACAGTACGTG TCCTGTTTTT 240
AAAATATACA ATTATTCTTA AAAATAAATT AAAATCTGTA TACTTACATT TCAAAAAGAA 300
A 301

SEQ ID NO:562

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00627

SEQUENCE DESCRIPTION:

GATCTNAGGA GCTTTAGGGA GAAGACTTGG TGGGGCTGGA GCACACCTTG GGNCTCANTG 60
GTTTCTGTGT CCCNGTGGTG CCANTCCTTC TGGGCAGTGC AGGCGGCTGC CAGGCCAGC 120
CCTGACTTCC ACTCTGGCTC AGCAACCTGG TTATTTATGT GGGGCCGTGC AGGCATGGGC 180
CCACTGCCTG TCCATCCTGT TTCTNTTATA AATTGAACT CACCATTGCC CTATCCTTGT 240
GTCTCCACCC GCTTCCATGT GTTGAATAAT AAAAGGTGGG AAAGTGCTGT CAAA 294

SEQ ID NO:563

LENGTH:296

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00628

SEQUENCE DESCRIPTION:

GATCTGCCAT AAGAAAATCT AGTTCAACTC TAATTTTATG TAGTAAATAA ATTGGCAGGT 60
AATTGTTTTT ACAAAGAATC CACCTGACTT CCCCTAATGC ATTAAAAATA TTTTATTTA 120
AATAACTTTA TTTATAACTT TTAGAAACAT GTAGTATTGT TTAAACATCA TTTGTTCTTC 180
AGTATTTTTC ATTTGGAAGT CCAATAGGGC AAATTGAATG AAGTATTATT ATCTGTCTCT 240
TGTAATACAA TGTATCCAAC AGACACTCAA TAACTTTTTT GGTTGTTAAA CTGAAA 296

SEQ ID NO:564

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00629

SEQUENCE DESCRIPTION:

GATCGACTAC AGAGTACTTN TTTCTTATGA TGATTGGTGT AGAAATGTGT GATTGGGGTG 60
GGCTTTTACA TCTTGCTAC CATTGCATGA AACATTGGGG TTTCTCAAA ATGTGTGTGT 120
CATACTTCTT TTGGGAGGGG GGTGTTTTTC TTCTGTTTAT TTTCTGAGAC TCCTACAGGA 180
GCCAAATTTG TAATTTAGAG ACACTNAANT TTGTTAATCC TGTCTGGGAC ACTTAAGTAA 240
CATCTAAAGC ATTATTGCTT TAGAATNNNC AAATAAAATT TTCCTGACCA AATTGTTTTG 300
TGGGAAA 307

SEQ ID NO:565

LENGTH:296

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00630

SEQUENCE DESCRIPTION:

GATCTTGCTC CTTCAGACTC TGACCTGAGT GGAGACCTTT CCACCAGACA CAGCTCGGGC 60
CTGTGTAATT GTAGGAGAAG ACACCTCAGCA GTGATTGCCA TGGCACAGAG CCGTGGTCAT 120
TGTTGCTGTT ACAAAGAAGA AAACCATCTG AGTTCTAACT CCTTGGTTGC TTAAAAGTAG 180
TTCCCAAGAG TCTGAGAAGC TATTTCTATT TTAAAGAGTC ATTTTTGTGA ATNTTTGTAA 240
NACAAAAGTA CCAATCTGTT TTGTAAATAA AANTCATCCT AAAATTTCGAN GTTAAA 296

SEQ ID NO:566

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00631

SEQUENCE DESCRIPTION:

GATCTTTNGC TAGGTGGATG ACTAGTNATA TTCAAAGCCT TTTCTCAAAG CCCTTTCAGT 60
TACAACCACC CCACTATGGA ATCAGTATTT AGTTATACAT TTGTATAAGA NCCTGTATTT 120
TGAAAAACAC ATTCATGTAT ATTTATTCCT GGAATTATTT GCCTGTATAA CAGTGTCTTT 180
CATGTTCTCT CCCAGATTG TAACTCTGT AAGAAGCTGC TNGTATCTGT ATCCCTTGTT 240
GAAACTCTGA AAACACTGAA TAACTAAANT CTTCTTCTCA TCCNTAAA 288

SEQ ID NO:567

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00632

SEQUENCE DESCRIPTION:

GATCTTGATA TTCTGTACAA GTTGATGTAA TACCCTGATG CGTTTTAGAG GACTTGGCAT 60
AAATNAAAG NTTGGCAAAG GCCCTTGAGG GGCTTGGGGA TGAGAGTATG GAACTGTCTG 120
CATTGGACCC TAACTGGAC TAGANGAGGC ATCTTCAAGG TTCATACGTT GTCCAGCTGT 180
AAGTTCATTT GAGTAGCAGA GCTAACAAAT ATTTGAGGTC AAAACCTAC CATGTAAAAA 240
CAAACAAAAA CTTATCATGT TAATAAAAGT ATTCATTTGC TTGANANANA AA 292

SEQ ID NO:568

LENGTH:291

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00633

SEQUENCE DESCRIPTION:

GATCCTGACA AGAAGAAAAT NAAGCTCAAA GTCAAAAAAT CTCGTGAAAA ACGGAGTTTG 60
GCCTCTCATC TCAGTGGATA TATCCCTNCC AAAAGGAAAC AAGGGCAAGG CTTATCTTTG 120
TGTCAAAACG GAGAGTCACC CAACTGTGTG GAAGACAAGA TGCTCTCGAC AGTTGCAGTA 180
CTTACCCTTG GCTAAGAACT GCACTGCTTT GTTTAAAGGN CTGCAGACCA AGGAGCGAGC 240
TTTCTCTCAG AGCATGCTTT TCTTTATTAA AATTACTGAT GCAGANAAAA A 291

SEQ ID NO:569

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00634

SEQUENCE DESCRIPTION:

GATCANGCTG GCTGCAAAGA AGGGACTGGA CCCATACAAT GTACTGGCCC CAAAGGGAGC 60
TTCAGGCACC AGGGAAGACC CTAATTTAGT CCCCTCCATC TCCAACAAGA GAATAGTAGG 120
CTGCATCTNT NAAGAGGACA ATACCAGCGT CGTCTGGTTT TGGCTGCACA AAGGCGANGC 180
CCAGCNNTGC CCCCCTNGT GGAGCCCATT ACAAGCTNGT NCCCCAGCAN CCTGGCACAN 240
TGAGGNACCT GCACTAAATT ACTNAAAATG TGCTGTAAAG NTTTN 285

SEQ ID NO:570

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00635

SEQUENCE DESCRIPTION:

GATCACCCCTT GTAATGTGTT ACGGGTCCAT TTTTCCTGGA ATCGTTTAAT CTAAAGCAGT 60
TTCCCCTGTT TTGGAGATTT TNTAGTTAAT TTAAATTTTG GCTATTGTTT GGAAAAGATG 120
AGCTGTCTGT GTAGATATGA AGTATAGTTT TTNCCATAAA ACAGATGTTT ATTTTGTATT 180
AAAAAATACC ACTGTACTTG TTTTACACCA TTTGTATACA TGTGGTGATA TTAATGCTAA 240
ACTGTAAAAT TCAGGAATTA AAATGTGACC CTGTAATTCC ATAAA 285

SEQ ID NO:571

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00636

SEQUENCE DESCRIPTION:

GATCTAACCA TTTTCATACT CTTAACTGAT TGAAACAGAT TCAAAGAAGT ATCGAGTGCT 60
ATGCATTGAA ACTTGTTTTT AAATGTTAGA TGGCACTATG TATATTAATG TAAANCAATG 120
TTAATTTACT CAAGTTTTCA GTTTGTACCG CCTGGTATGT CTGTGTAAGA NGCCAATTTT 180

NGTGTATTGT NACAGTTTCA GGTNATTNAT ATTGCATGTT TTGTAAANCT CAAATANCGA 240
CTATACTNAT GGGNCCAAAT AAATGGGCAT CTGCATTCTN GGTAAA 287

SEQ ID NO:572

LENGTH:282

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00637

SEQUENCE DESCRIPTION:

GATCTNTGGT GGCAATGNCT GACCAGTAGA CTGGTGGCTC ACTTCTNCCC ACCTGCCGGC 60
AACACCAGTG CCAGGAAAAG GCCAAAAGAA TGTNTGTTTC TAACAAATCC ACAAATAGCC 120
CCGAGATTCA CCGTCCTAGA GCTTAGGNCT GTTTTCCACC CCTCCTGACC CGTATAGTGT 180
GCCACAGGAC CTGGGTCGGT CTAGAACTCT CTCAGGATGC CTTTCTACC CNATCCCTCA 240
CAGCCTCTTN CTGCTAAAAT AGATGTTTCA TTTTNTGGA AA 282

SEQ ID NO:573

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00638

SEQUENCE DESCRIPTION:

GATCTACTGG CGAGCGATGA AAATGTTGCA GGGAGAGTCA GCAGAGGCAT TTGTAGCTAA 60
ACATGCTATG CATCAGACTG GCCATTTATG AAGATGAAGA ATACAGTCAG CTTTGTGAAA 120
TAGTATTGCA AGCAAGCCCC GTGGGCAAAT TTGTATTGAG TCCATCTGTA ATTTGCTCAG 180
TGATGGCAGA CAAGATGGCT GTCTGGTTTT GAGACACACT TTAATTTTAT GTTAACTTGT 240
TAAATCTTTT TAAAAATTAA AAAATTTTTA TGATTGAAA 279

SEQ ID NO:574

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00639

SEQUENCE DESCRIPTION:

GATCATTGCA TTTTCTGTA TTTTCTAAAA TGGCTCCAAT TTTGTNTTTT AAGCTTCAGC 60
TTAAGAGGAA GTTTATGTTT TAATTCTTGA CTGAGAATAC AGTATTGAGA TTCTNTGTTT 120
TACAGATAAC AACTGGTTTT TATTACTCAT TAAGTTCATT TGCATCCCGT AGCCCTCTGT 180
AAATGTTTCC CCTAGTTGTA TGTACGTAAA TGCACGCTTA TCCAGTNTAT ATTAGACATT 240
TTTGTGCTAA AATATATTAA GTGGGATTTT TGTAGCAAA 279

SEQ ID NO:575

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00640

SEQUENCE DESCRIPTION:

GATCTTTGCA AGGGCAAAAC TACAAGTAAC GAGTTTTATA TAATTAATTT AAATTTNTNA 60
 CAGGTTTTCA TGTTCAGGAT AAACCATACT TCCACCTGG GTGAGAACAC TTGCAACAGT 120
 TTATTAATGA GGTGACTTTC ACCTTAGGAC AACTGTTGCA TGCCAAGTTT TTTGTGTGTG 180
 TGAAACACTN TCAAACTGA TTTAAAGAT GTAAATTAA AATTGGTTGT ATCTAATATG 240
 CCCCAGGTTC GGTAAATAA CAATTCTTTT TAAAAACAAA 280

SEQ ID NO:576

LENGTH:300

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00641

SEQUENCE DESCRIPTION:

GATCTGCCTG TCCCTTTTTC CCCTGGGGTT TGACACACAG GCTCCTCTCA GCATGAGGTG 60
 GAGCAGTGAC CAGGTGGAGC AGTGACCAGG ACGCCTCTGG CCCAGTGCTG CCCAGCCTCC 120
 CCGNCCGCTC CCAGGCGCCC CATGTCCTCA CAGGCCAGGA CGCCATGNCA GGATGGAGAG 180
 GACTTGGTGG ATTTTGTGTT CTGCTGAC CTCAGTTTCA TGAAAGAAAAG TGGAAGCTAC 240
 AGAATTATTT TCTAAATAA AGGCTGAATT GTCTGAAAAA TAAATATAT TTGTATTAA 300

SEQ ID NO:577

LENGTH:278

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00642

SEQUENCE DESCRIPTION:

GATCTGGGAC GTGGTTCGGC GGANAGTCCC CAGCCCGGCC CCCTGCCTGG GACCACCAGG 60
 CCCCAGGAG AAGCCGCCTG AGCCACAACC TTGCGGCATG CAAATNAGAT GGCCGCTCCA 120
 GGCTGGAAT GTTCCGTGGC TGGGCCCCAC GGAAGCCTG ATGTTCAAGG TTGGGGTGGG 180
 ACGGGCAGCG GTGGGGCACA CCCATTCCAC ATGCAAAGGG CAGAAGCAA CCCAGTAAAA 240
 TGTTAACTGA CTTCCAGCCT CACCCGTGGG CGGTCAAA 278

SEQ ID NO:578

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00643

SEQUENCE DESCRIPTION:

GATCAGGGCC CACTGATGAT GGTGAAGAAG AGATGGAAGA AGACACAGTC ACAAACGGGT 60
 CCTGAGCAGT GAGGCAGATG TATAATAATA GGCCCTCTTG GAACAAGTNT TGCTTTTNGA 120
 ACATGGTATA ATAGCCTTGT TTGTNTTAGC AAAGTGAAT CTATCAGCAT TGTTGAAATG 180
 CTTAAGGCTG CTGCTGATAA TTTNNTAATA TAAGTTTGA AATCNAAATG TCAATTTNCT 240
 ACAAATNATA AAAATAAACT CCACTCACNA TGCTAAA 277

SEQ ID NO:579

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00644

SEQUENCE DESCRIPTION:

GATCCGAGTC GTCCGGAAT CCATTTGCCC GTNTTCTCAC AGTTATTAAC CAGACTCAGA 60
AAGAAAACCT CAGGAAATTC TACAAGGGCA AGAAGTACAA GCCCCTGGAC CTGCGGCCTA 120
AGAAGACACG TGCCATGCGC CGCCGGCTCA ACAAGCACGA GGAGAACCTG AAGACCAAGA 180
AGCAGCAGCG GAAGGAGCGG CTGTACCCGC TGC GGAAGTA CGCGGTCAAG GCCTGAGGGG 240
CGCATTGTCA ATAAAGCACA GCTGGCTGAG ACTGAAA 277

SEQ ID NO:580

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00645

SEQUENCE DESCRIPTION:

GATCAGGACC CACCTNCAGT NCTTCTGAAA GTGTGACAGT GTCCAGCCGG TTCTGCAGCA 60
CTAGGGGAGG GGGCAGATGG TGGTTGCATG GGCTTCCTGG GTCTCCACTC TCCGTCTGGC 120
CTAAAGGTGA TGTATTTGGT GTTTGGCCCT GCAGTCCCCA CTCTTGAGGC TTAAGGCGCA 180
TGTGGCACAN CACTNCTTCC AGCAGTAGTC GCTTTACTGT TACCNGTTTA GGCCTAGAAG 240
TTTTCCNCA TCTGTAAATG TGATTAAAA TNTAAA 276

SEQ ID NO:581

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00646

SEQUENCE DESCRIPTION:

GATCTACTTA CTCAAGTCTN ATGAATNCTG NGCCTTTCAT CACATTCCTA GCCCACTCTC 60
ATCATTACTG CAGAAGGGTG TTGTGATGAC CAGTNTTATA CTGTGTTTTG ATATGTCTAG 120
CAATAACTTA AAGAAAAAAA AACCTGGGAA ATCTTCAACA TGNNNTNGGA ACATATATGT 180
ATGTATTAAT GNATATACAT GGCTTAACTT ATACGGTTAT GGCAGCNCCT GTATACAGTT 240
TGAACTCATG NACCTGAAAA ANAATTCTTA ANTTN 275

SEQ ID NO:582

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00647

SEQUENCE DESCRIPTION:

GATCGCCATC ATGAACGACA CCGTAACTAT CCGCACTAGA AAGTTCATGA CCAACCGACT 60
ACTTCAGAGG AAACAAATGG TCATTGATGT CCTTCACCCC GGGAAGGCGA CAGTGCCTAA 120
GACAGAAATT CGGGAAAAAC TAGCCAAAAT GTACAAGACC ACACCGGATG TCATCTTTGT 180
ATTTGGNTTC AGAACTCATT TTGGTGGTGG CAAGACAACCT GGCTTTGGCA TGATTTATGA 240
TTCCCTGGNT TATGCAAAGA AAANTGGAAC CCNAACATAG NCTTGCAAGT CATGGCCTGT 300
ATGNGGN 307

SEQ ID NO:583

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00648

SEQUENCE DESCRIPTION:

GATCTGAATT TTTCTCTCT TTTGGTTTTA TTTGTTGGT TTATTTTGTG TTTCTTTTC 60
TCCTTTTGG GGGGTATTCA GAGTGGGCTG GGCCCTGGG CGAGACACAG CTACCTCTGT 120
TGGCATCTTT TTAATACCAG GAACCCAGCG GCTCTAGCCA CTGAGCGGCT AAATGAAATA 180
AAGTGGAAAA AAAAAAANGG GAAAAACCCA AAGGNTTAAA AACCCACNGG AATTTTNTTG 240
TNGAAANTNG AAAATAAAGG TTTCCNNGTA AA 272

SEQ ID NO:584

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00649

SEQUENCE DESCRIPTION:

GATCTATACC AATTAACAT TTTCATAGTT CTGCCTATTG TCCTTCCCTG AGGCTCCATT 60
GCTGCTTGGT GGCCATTCTC TGCCTTTTTA CAGTCACCTG AACAAATGACC CATCATCTCT 120
TGCTTGCTTG AAATCTTGCT GAAATGTTCT CATTTCTGT TTGCTGTATG GGCTCGGGTG 180
GGATGTTTGT TGGCTCTGTT GTGTTTATTC ACCAATTTGT ACATTATTTG TTGTCCTTTA 240
CTACTGTAAA CAGTAAATAT AGTTTGGTAT TCTGTCAA 279

SEQ ID NO:585

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00650

SEQUENCE DESCRIPTION:

GATCCCAGAC TGGTCTTGA ACAGACAGAA GGATGTAAAG NATGGAAAAT ACAGCCAGGT 60
CCTAGCCAAT GGTCTGGACA ACAAGCTCCG TGAAGACCTG GAGCGACTGA AGAAGATTCT 120
GGCCCATAGA GGGCTGCGTC ACTTCTGGGG CCTTCGTGTC CGAGGCCAGC ACACCAAGAC 180
CACTGGCCGC CGTGGCCGNA CCGTGGGTGT GTCCAGNAAG AAATAAGTCT GTAGGCCTTT 240
GTCTGTAAAT AAATAGTTTT ATATACCTNN AAA 273

SEQ ID NO:586

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00651

SEQUENCE DESCRIPTION:

GATCTNCCAC GTCTCCATCT CAGTACACAA TCATTTAATA TTNCCCTGTC TTACCCCTAT 60
TCAAGCAACT AGAGGCCAGA AAATGGGCAA ATTATCACTA ACAGGTCTTT GACTCAGGTT 120

CCAGTAGTTC ATTCTAATGC CTAGATTCTT TTGTGGTTGT NGCTGGCCCA ATGAGTCCCT 180
AGTCACATCC CCTGCCAGAG GGAGTTCTT TTTTGTGAGA GACACTGTAA ACGACACANG 240
AGAACAAGNN TAAACAATA ACTGTGTGTG TTAAA 275

SEQ ID NO:587

LENGTH:269

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00652

SEQUENCE DESCRIPTION:

GATCTTATGG ATAAACTCA GAAAGTGAAG GTGAAGAAAG AAACGGTGAA CTCCCCAGCT 60
ATTTATAAAT TTCAGAGTCG TCGAAAACGT TGACGTGTTA TAGATAAGCC TTGTCATTNT 120
GTATCAAAAA TCTGTTGTCG TTTTCTAGTA ACTTCAAATT CCATTACTCC AAATGGCATG 180
GTTTTCCGGT TTGTAACCAT AACTAAATTG TCAGTCTGAC ATTTAATGTC TTTCTATGGA 240
CAACATTAAA TCNCCCTCCC TTCTGTAAA 269

SEQ ID NO:588

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00653

SEQUENCE DESCRIPTION:

GATCAAGTGG CTTTCCCTGG GACCTGCCCA GCTTTGAGAA TCTCTNCTCA TCCACCCTCT 60
GGCACCCAGC CTCTNAGGGA AGGAGGGATG GGGCATAGTG GGAGACCCAG CCAAGAGCTG 120
AGGGTAAGGG CAGGTAGGCG TGAGGCTGTG GACATTTTCG GAATGTTTTG GTTTTNTTTT 180
TTTTAAACCG GGCAATATTG TGTTCACTTC AAGCTGTGAA GNAAAATATA TATCANTGTT 240
NNCCAATANA ATACAGTGAC TANCTGAACA AA 272

SEQ ID NO:589

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00654

SEQUENCE DESCRIPTION:

GATCGTCAAA TCTTTTNCAA ATTTAATNTA TATGTGTATA TAAGGNAGTA TTCAGTGAAT 60
ACTTGAGANA TGTACAAATC CTTTATCCAT ACCTGTGCAT GAGCTGTATT CTTCACAGCA 120
ACAGAGCTCA GTTAAATGCA ACTGCAAGTA GGTTACTGTA AGATGTTTAA GATAAAAGTT 180
CTTCCAGTCA GTTTTTCTCT TAAGTGCCTG TTTGAGTTTA CTGAAACAGT TTACTTTTGT 240
NCAATAAAGT TTGTATGTTG CATTTAAA 268

SEQ ID NO:590

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00656

SEQUENCE DESCRIPTION:

GATCAAAAAT AAAATGTTAT TTTTAAAGTT TCTNTTTGAG ATTTTNCCTA AGTTTTGGTA 60
 GATATTCTTA AGTTTTAGTG ACCTCAGTTT GGGAATTAAG TAAGCTAAAC ATTGTGTCCT 120
 TATTATNAGT TATATAAAAC TATGCTTTAG ACTTTGTNAG AAACCTCTGC CCCACCTGA 180
 CTGACTGCTT TNCCATTNTT GGTGTACAA AATGAATTCA CACTTAATG CTATGGCCAC 240
 CTTTAAATAA AGTACAGCGT GACTAAA 267

SEQ ID NO:591

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00657

SEQUENCE DESCRIPTION:

GATCTAGATT CTACATGTTA CCATTGGTTT ATTCTGTGC TTTCTGTATT TAAAACCTTG 60
 GCTGTACTAA GCAAAATGCAA GGTATAATT TAGCTAATAG TAGTTTACAG ACAATTCTGA 120
 TGATTATGAT TTCATTTGGT TTAAC TAAGC TGTACTAGTT CATTTCAATA GGAAATGATA 180
 CTGTAGACAA ATGTAAATAA AGCCTGTGAG TCAAGCATCA AGTGGTGTGTT GTTAGAAATA 240
 ANCTAGAGAT TTTAANCTC TGAAA 265

SEQ ID NO:592

LENGTH:264

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00658

SEQUENCE DESCRIPTION:

GATCTGGGGC CAGCTCACCG CTCACGTCCC CGTCATCGAC AACTCCACCC TNTACATCAG 60
 TAGAGCATGC ACCATTTTGA ACGTGACATT TNCGGTAAAG TAAACTATGC TGATTTCTCA 120
 GACTTTAAAG ATGCTCTNNT TCTGTGTGTN AAATAGGACC CAAAGTGTCT CGATTGCTGA 180
 AGTGATGAAC AAGTGGGAAA GCAGATTTGA GACTATTTCC TTATCTGAAT ATTTAAATGA 240
 AATACAGCAT CTTTAAAANG CAAA 264

SEQ ID NO:593

LENGTH:262

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00659

SEQUENCE DESCRIPTION:

GATCTTTTAA AAAGATGATG CAGTTCTGTA TTTATTGTGC TGTGTCTGGT CCTAAGTGGA 60
 GCCAATTAAN CAGGTTTCAT ATGTATTTN CCAGTGTTGA ATCTCACACA CTGTACTTTG 120
 AAAATTTCTT TCCATCCTGA ATAACGAATA GAAGAGGCCA TATATATTGC CTCCTTATCC 180
 TTGAGATTTC ACTACCTTA TGTTAAAAGT TGTGTATAAT TGTTAAAATC TGTGAAAGAA 240
 TAAAAAGTGG ATTTAAATTA AA 262

SEQ ID NO:594

LENGTH:260

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00661

SEQUENCE DESCRIPTION:

GATCCATCCA AAAACAAGGA CTGCAGCCTA AATTCCAAAT ACCAGAGACT GAAATTTTCA 60
GCCTTGCTAA GGGAACATCT CGATGTTTGA ACCTTTGTTG TGTTTGTAC AGGGCATTCT 120
CTGTACTAGT TTGTCGTGGT TATAAAACAA TTAGCAGAAT AGCCTACATT TGTATTTATT 180
TTCTATTCCA TACTTCTGCC CACGTTGTTT TCTCTCAAAA TCCATTCTTT TAAAAAATAA 240
ATCTGATGCA GATGTGTAAA 260

SEQ ID NO:595

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00662

SEQUENCE DESCRIPTION:

GATCCCTTTA TGAAACCTTG TGAATAGATG AATGTNTGGA GATGGCGACT AGTGGACAAC 60
AGAACAATAT TGGAATGGTG GTAATACGAG GAAATAGTAT CATCATGTTA GAAGCCTTGG 120
AACGAGTATA AATAATGGCT GTTCAGCAGA GAAACCCATG TCCTCTCTCC ATAGGGCCTG 180
NTTACTATG ATGTAAAAAT TAGGTCATGT ACATTTTCAT ATTAGANTTT TTGTTAAATA 240
NNCTTTTGTA ATAGTCAAA 259

SEQ ID NO:596

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00663

SEQUENCE DESCRIPTION:

GATCNGGCT AAGCCAGCCA GCCCNCCCGC GCCAGGNAAA ACAGGGCTGC AGGTGTCCTG 60
TCTCCAGCC TCATCTGGCC GGCCTCCCCA AACATTTGCC TGTCCATCAG CTCTTCCTCC 120
TTTCGAGTCA TGTGGAAGG GACAGGNCCA AGTGGCCTTG GTGTTTAAAT CTTGCCCTAA 180
ATTGTAATC ACATGATTAT TTAAAGTCAC TAGANATAAG TAAGCACAGC AATAAAGNTT 240
TAATGGAATA AAAGAAA 257

SEQ ID NO:597

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00664

SEQUENCE DESCRIPTION:

GATCCCAGAA TTCAACCTGT ATTTATAAAT GTATAATGTA TTTAGCTACT TTTTGGTTTA 60
AATGAACCTG TTGGGTTAGC TTGGTAAATG TTATAATTTT NACTATTTTC TACAAAGAAA 120
ATATTTTCTA ATTTAAGTTG GAGCTATCTG TGCAGCAGTT TCTCTACAGT TGTGCATAAA 180
TGTTTTNCT ATAAAAAGAG CTAATGTATA ANATACTGCT GTATACCATA ATAANGATAG 240
TAATACTTGA AA 252

SEQ ID NO:598

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00665

SEQUENCE DESCRIPTION:

GATCATTAGT TGAATCGGTA TCATCTTCAC CAAATAAAGA AAGTAATGAA GAAGAGCAAG 60
TGTGGCACTT CCTTGGCAAG TGATTGAAAC ATCTGAAATT CTGCTGTCAA GATTCCCATC 120
TCTAAGGACT CCAAGTGCTA GAGACAAGGG GGTCTATGAG CATTTACTGA CTCCTGTTA 180
AAACTTCATT TTTTCAAAC TTTTGAGCTA TGCAATATAT AANTAAACAG TAAGAATTTT 240
AAATTACAAA 250

SEQ ID NO:599

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00666

SEQUENCE DESCRIPTION:

GATCCTTCTT CCTTTCACTG GTCGTGCCTC CCANNAGGTG CAGAGATTCT TAGAAGAGGA 60
GGTGTATCCC CTGTTAAAC CATATGAAAG CGTGATGAAG GTGAAAGCAG AATTATGTCT 120
GTAGAGTTGG AAGAGAATTA AACGAAAATC ATTGTTAATT GCTGAGGCAT GAAAATTGTG 180
TTACTATAAT GCCTTATTTT ACCTCGAGAA TTGTTACCTT AAATTAGTAC AGCACTTTCT 240
TCTTCCCAAA 250

SEQ ID NO:600

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00667

SEQUENCE DESCRIPTION:

GATCCTTCAG TTACATACAA TTTGTTTAAT GAAATGTCAT GGCTCTGTTC ATATTTTNNT 60
NTTGTNCTTC CAATTGGTAT ATACAACTTT CAGAGCCTCT TGTATTTGGA AGGCTGGAAG 120
GGCCCAGACT TTGGAATAGT GTCTTGGTTT CACTGTTTTN GTTTTGATTT TTTTTTGTG 180
TNGATTTTTT TAAACTAAA GCTATATAAA GCTTGNGGAT TAANCAGANT AAATTCCTAA 240
ATTAAA 247

SEQ ID NO:601

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00668

SEQUENCE DESCRIPTION:

GATCCAGGGT GTGTGTGAGT TGAGGGTGGG TGGAGGGGTT TGCAGTGTGG GAATGTGGCC 60
CTGCAGTTGA CCTGAGCTGC TTCACATGGT TGTCCATTCT GGGGCTTAAA GAACTGGGAC 120

CAGACCAAGT AGAGGCCTTG GTGCTGNTTG GGGTGGGGCC TGCAGANTCT TAGTTACTGA 180
TTTCATTTTC AATAAATGTA GGTGTGTTAC ATGAGTTTCC CAATTAATAA AAAAATGACT 240
TCTAAA 246

SEQ ID NO:602

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00669

SEQUENCE DESCRIPTION:

GATCAGAATT TCACCAGGGA GTAAAATTAC CTGAAAACGT AAGANGTTTT AAACAGCTTT 60
TCACACAAAT TAGATGCAAC TGTTCCCATG TCTGAGTACT TATTTAAAAG AAAGGTAAAG 120
ATTGGCCTGT TAGAAAAAGC ATAATGTGAG CTTTGGATTA CTGGATTTTT TTTTTTTNA 180
AACACACCTG GNGNGGNCAT TTGAAAACAC TTTTCTTACC CTCGANCCCT GATGTGGTNC 240
CATTATGTAA ATATTTCAAA TTTTAAAAAT GTATATATTT GAAA 284

SEQ ID NO:603

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00670

SEQUENCE DESCRIPTION:

GATCGAGGTG GAGAAGCCCT TTGCCATCGC CAAGNAGTAG GGCACAGGGA CATCTTTCTT 60
TNAGTGACCG TCTGTGCAGG CCCTGTAGTC CGCCACAGGG CTCTGAGCTG CACTNGCCCC 120
GGTGCTGGCA TCTGGTGGAG CGGACCCACT CCCCTCACAT TCCACAGGCC CATGGACTCA 180
CTTTTGTAAC AAACCTCTAC CAACACTGAC CAATAAAAAA AAATGTGGGT TTTTTTTTTT 240
TTAAATAAA 249

SEQ ID NO:604

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00671

SEQUENCE DESCRIPTION:

GATCGGAATG GTGGAGAACT TCAACCAGGC ACTCAAGGAA ATTGGGGATG TGGAGAACTG 60
GGCTCGGAGC ATCGAGCTGG ACATGCGCAC CATTGCCACT GCACTGGAAT ATGTCTACAA 120
AGGGCAGCTG CAGTCTGCCC CTTCTAGCC CCTGTTCCCT CCCCCAACCC TATCCCTCCT 180
ACCTCACCCG CAGGGGAAAG GAGGNAGGCT GACAAGCTTG AATAAACAC AAGCCTCCGT 240
TAAA 244

SEQ ID NO:605

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00672

SEQUENCE DESCRIPTION:

GATCCCCCTT CCGTAAAAGC GTGTAACAAG GGTGTAAATA TTTATAATTT TTAATACCTG 60
 TTGTGAGACC CGAGGGGCGG CGGCGCGGTT TTTNATGGTG ACACAAATGT ATATTTTNCT 120
 AACAGCAATT CCAGGCTCAG TATTGTGACC GCGGANCACA GGGGACCCCA CGCACATTCC 180
 GTTGCCTTAC CCGATGGCTT GTGACGCGGA GAGAACCGAT TAAAACCGTT TGAGAAGCTC 240
 CAAA 244

SEQ ID NO:606

LENGTH:242

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00673

SEQUENCE DESCRIPTION:

GATCTTTCCC ATNTCTACCT AAGTCAGCTT TCATCTTTGT GGATGGTGTC TCCTTTACTA 60
 AATAAGAAAA TAACAAAGCC CTTATTCTCT TTTTTNTTG TCCTCATTCT TGCCTTGAGT 120
 TCCAGTTCCT CTTTGGTGTA CAGACTTCTT GGTACCCAGT CACCTCTGTN TTCAGCACCC 180
 TCATAAGTCG TCACTAATAC ACAGTTTGTG ACATGTAACA TTAAAGGCAT AAATGACTCA 240
 AA 242

SEQ ID NO:607

LENGTH:245

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00674

SEQUENCE DESCRIPTION:

GATCCGGGTG GATGCACAGC CCGTCAAGGT CTATGCTGAC GNCTCCCTGG TCTTCCCCCT 60
 GCTTGTGGCT GAAACCTTTG CCCAGAAGAT GGATGCCTTC ATGCATGAGA AGAACGAGGA 120
 CTGAGCGGCT GCGGTCCCAG GAAGGTCTTA CCCCTCTNC TATTTATNAA TTTGCAGACC 180
 CAGCCCNCTC CTTACTTTTT GTTCAGCTAC GNCTCTAGAA TAACNCCCGG TATCTGAAGT 240
 CCAAA 245

SEQ ID NO:608

LENGTH:245

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00675

SEQUENCE DESCRIPTION:

GATCTCTACC ATTTAATTAA GAAAGCAGTT GCTGTTTCGAA AGCATCTTGA GAGGAACAGA 60
 AAGGATAAGG ATGCTAAATT CCGTCTGATT CTAATAGAGA GCCGGATTCA CCGTTTGGCT 120
 CGATATTATA AGACCAAGCG AGTCCTCCCT CCCAATTGGA AATATGAATC ATCTACAGCC 180
 TCTGCCCTGG TCGCATAAAT TTGTCTGTGT ACTCAAGCAA TAAATGATT GTTTAACTAA 240
 ACAA 245

SEQ ID NO:609

LENGTH:241

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00676

SEQUENCE DESCRIPTION:

GATCTAAAT GTCACATTCA GATTTTNAGG AAGAAAATCT TCATTACAGT GGAGCACAAA 60
TNTTCCATAC AAGACATCAT TGAGGNAGCA TGCTGTCCCC TTCTAACCTG AAACACATTG 120
TTTCCCATCC NGGTTGGGCT TCTNTACCNC CTTATTAATT TATGAACCNG AAGTTGCTTG 180
AAGTGTTTTG GGCTTAATAA ATGGGGTGAA AGTATAGGTA GCAGTAACAC CTACATGNAA 240
A 241

SEQ ID NO:610

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00677

SEQUENCE DESCRIPTION:

GATCTTCTGA GGTCAGGAGT TTGAGACCAG CCTGACCAAC ATGGAGAAAC CCAGTCTCTA 60
CTGAAAATAC AAAATTAGCC GGGCATGGTG GTGCACGCNT GTAGTCCCAG CTACTTGGA 120
GGCTGAGGCA GGAGAATCGC TTGAACCCAG GAGGCGGAGG TTGCGGTGAC CCTCCAGCTT 180
GGGCAACATG TTATGANTGA AACTCCATCT CAAAAAATAA AAAAAAAAAA GGGNNGCAA 240

SEQ ID NO:611

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00678

SEQUENCE DESCRIPTION:

GATCTGTGAA GGCTTCCCTG ACCNNTGCCC AGGAAGAGTT CACTGGTCGC TCTGTTGTGC 60
CCCACAGCAC TTTGTTATAC CTCTGCCACA CACTTCACGC AGCGCGTTGT AACTCATGTG 120
TTTACATGTC TGTCCCNCCA GACTGTNAGC TCCTTGAGGG CAGGGACTGT ACATTCTCCA 180
GCTCTGTGTC CCCAGGGCCT GGCACATTGT AGACGCTTAA TAAATTTCTG TTAAATGAAA 240

SEQ ID NO:612

LENGTH:242

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00679

SEQUENCE DESCRIPTION:

GATCAGCTCC TTGACCTCTG AGGGGCAGGN GTGCTTCCTG GTGTGTGTAT TAGAATCCCT 60
TCCTGCCTTG TTTGATGGCA GTGAAATGCC TCTTGGTCCT GTCCAAGTGT ATCTTTCACT 120
GATTTCTGNA TCATGNTCTA GTTGCTTGAC CCTGCCANAT GGGTCCAGTG TTCATCTGAG 180
CATAACTGTA CTAAATCCTT TTTCCATATC AGTATAATAA AGGAGTGATG TGCAATAGCA 240
AA 242

SEQ ID NO:613

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00680

SEQUENCE DESCRIPTION:

GATCGCAACA ATNAGCCATC CACATNCGTT TTTCAGGGTC ACACCCAAGT AATTGAAAAG 60
ACACTCCTCC ACTTATCCCC TCCNTAATAT GGCTCTNCGC ATGCTGAGTA CTGGACCTCG 120
GACCAGAGCC ATGTAAGAAA AGGCCTGTCN CCTGGAAGCC AAAGGACTCT GCATTGAGGG 180
TGGGGGTAAT TTTTCTTGG NGGGCCCAGT TAGTGGGCTT NCGNANTGTN TGTATGN 239

SEQ ID NO:614

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00681

SEQUENCE DESCRIPTION:

GATCCAAATA AACAGACCCC GTCTGGCAAG AAATGCATTG CAGCCAAAAA AATTAAACAG 60
TCGGTGGGAA ACAAAGCAT GTCCTTTCCA ACTGGAAAGT CAGACAGAGG CTCAGGTAC 120
AACTGGCCAC AGAGATAGTC CTGGAAGACA CGTGGCGCCT GTGGACCGGA AGCACCAAAT 180
GCTGGTGCTG CTTTGTACA TACATATTTT TAAACCATTA AAATTCTTCC TGAAGAAA 238

SEQ ID NO:615

LENGTH:254

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00682

SEQUENCE DESCRIPTION:

GATCCATAGT CAGAAAAGTT ACTGCAGCTT AAACAGGAAA CCCTTCTTGT TCAGGACTGT 60
CATAGCCACA GTTTGCAAAA AGTGCAGCTA TTGATTAATG CAATGTAGTG TCAATTAGAT 120
GTACATTCTT GAGGTCTTTT ATCTGTTGTA GCTTTGTCTT TTTCTTTTTC TTTTCATTAC 180
ATCAGGTATA TTGCCCTGTA AATTGTGGTA GTGGTACCAG GAATAAAAAA TTAAGGAATT 240
TTTAACTTTT CAAA 254

SEQ ID NO:616

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00683

SEQUENCE DESCRIPTION:

GATCAAAGAA AGAAGGCATA CGCNGATTTT TACAGAAACT ATGATGTCAT GAAAGATTTT 60
NAGGAGATGA GGAAGGCTGG TATCTTTCAG AGTGTAAGT AATCTTGGA TATAAGAAT 120
TNCTTCAGGT TGAATTACCT AGAAGTTTGT CACTGACTTG TGTTCTGAA CTATGACACA 180
TGAATATGTG GGCTAAGAAN TAGTTCCTCT TGATAAATAA CCANTTAACA AATNCTTTNG 240
ACAGAAA 247

SEQ ID NO:617

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00684

SEQUENCE DESCRIPTION:

GATCTGCACC TGAGCCAAAG AAACCTGAGG AAAATCCAGC TTCTAAGTTC AGTTCTGCAA 60
GCAAGTATGC TGCTCTCTCT GTTGATGGTG AAGATGAAAA TGAGGGAGAA GATTATGCCG 120
AATAGACCTC TACATCCTGT GCTTTTNTCC TAGTTTCTCT CCACCCTGGA ACATTCGAGA 180
GCAATCAAA ACCTCTATCC AGACAAGACA AAATAAACT CAACATCTCC TGAAA 235

SEQ ID NO:618

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00685

SEQUENCE DESCRIPTION:

GATCTGTTCC TTGGCAGTGG ACTCAGAAAG CCAACATGTG GTCCTCCCA GCCCATAACC 60
AGTATTTTTC CTGCTTCTAA ATACAAATNG GTTGGTTTAA ACTTCANATT GANCTTACTG 120
TAGCCTCAAA TGATTTCCTC CCTCCGCCTC CAGGAAGAAA GAATGTNACT GCCTTAATAA 180
AAAATGAAAA GAGAATGATG CTCAAAATCT TTCCAATAA AATGTTCCCT ATATTAAA 238

SEQ ID NO:619

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00686

SEQUENCE DESCRIPTION:

GATCCGCCCT CGAATGGACA CATTACCAGT GAAGGGGCAT TTNTNGTCAA TGTAGGTGCC 60
CTCAATAGCC TCCTTGGGTG TNTTGAAGCC CAGACCGATG TTCTTGTAAGT ACCGCGGGAG 120
CTTCTCCTTG CCAGTTTCTC CCAGCAGGAC CCTCTTCTNG TTTTGAAAGA TGGTCGGCTG 180
CTTTTGGTAG GCACGCTCAG TCTGAATGTC CGCCATCTTC CCGCCGGGCT GAAA 234

SEQ ID NO:620

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00687

SEQUENCE DESCRIPTION:

GATCCCAAG CCTGGCAAGG GAATTTNTTC AACTCCCTGC CCCCCAGCCC TCCTTATCAA 60
AGGACACCAT TTTGGCAAGC TCTATACCA AGGAGCCAAA CATCCTACAA GACACAGTGA 120
CCATACTAAT TATACCCCCT GCAAAGCCCA GCTTGAAACC TTCACTTAGG AACGTAATCG 180
TGTCCCCTAT CCTACTTCCC CTTCCCTAATT CCACAGCTGC TCAATAAAGT ACAAGAGCTT 240
AACAGTNNA A 251

SEQ ID NO:621

LENGTH:241

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00689

SEQUENCE DESCRIPTION:

GATCCATCAT CCGNCAATGT TAAAAGGCCCG GTGCGCGAG GCGACGTGC TCACCCTTTT 60
GGAGTCAGAG CGAGAAGCCC GGAGGTTGCG CTGAGCTTGG CTGCTCGCTG GGTCTTGGAT 120
GTCGGGTTTCG ACCACTTGGC CGAGGGGAAT GGTCTGTCAC AGTCTGCTCC TTTTTTTGT 180
CCGCCACACG TAACTGAGAT GTCCTTTAA ATAAAGCGTT TGTGTTTCAA GTTAACTCAA 240
A 241

SEQ ID NO:622

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00690

SEQUENCE DESCRIPTION:

GATCCTCCTG CCTNGGCCTC CAAAAGTGCT GGGATTACAT GCATACCTGA NCTACTGAGC 60
ACTTTNATCT TGAATGAGTG TTGGATTTTG TCAAATGCTT TTCCTGTACC TATTAATACA 120
ATCATGATTT TNNCCTCTTT AGTATGTTGA TATGATGGGT TACATTAATT GATNNTCAAA 180
TGTTGAATCA GTCTNGCATA CCTGGAATAA ATCCCACTTG GTCATAATAA A 231

SEQ ID NO:623

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00691

SEQUENCE DESCRIPTION:

GATCTATGAA ATCTGTGTAG GTTTTAAATA TTTTAAAAAT TATAATACAA ATCATCAGTG 60
CTTTTAGTAC TTCAGTGTTT AAAGAAATAC CATGAAATTT ATAGGTAGAT AACCAGNTTG 120
TCNCTTTTTG TTAAACCAA GCAGTTGANA TGGCTATAAA GACTGACTCT AAACCAAGAT 180
TCTGCAATN NTGATTGGNA TTGCACAATA AACATTGCTT GNTGTTTTAA A 231

SEQ ID NO:624

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00692

SEQUENCE DESCRIPTION:

GATCCCATTT AGGAANCGGC ATTCACTTCA GAAGGTACTT TTAACTGCT CAGTTTTTGA 60
CTATTTTAAA TAGTTTGCTG AAAACTCCTG ATAACACTTG CTACATATCA TGTTTTAATT 120
GCTTGACAG TTAACCTTTA ATTTTATTTA GTAAAGTGTA TCAAAGTAGG ACTTTTTTGA 180
ATTGTAAATA GGTGGTTTTA TTAAATAAAA GTCAATGTAA AAATTGTAA A 231

SEQ ID NO:625

LENGTH:230

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00693

SEQUENCE DESCRIPTION:

GATCCGGAGG GAAATGTGTT AGAGGGTCTG GAAAATTCAG TGCTTTTGAG TTA CT TGT TTT 60
TTATTA AAAA T TCCTCACA AAAGAGAGTC CTCAAGTTGT GGCTGTTCTT GGGAAAGGGG 120
TCACCGTGTC TGACAAAAGTG TAACTTTAAA AAGCACGTTG ATTTT T TACA AATGTAAGTG 180
TGCTTGGGAA TTCCTTAAAT TTTGTGCAAT AA ACTATTTT TTGGAAGAAA 230

SEQ ID NO:626

LENGTH:202

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00694

SEQUENCE DESCRIPTION:

GATCCAATCA TATTTNCTGT AGGGTGGAGG AGGTTTCAGA CCATCCCGCT CTGTTATATC 60
GAAGACCACA ATGGAAGACA AAGGCTTCTA AAGTATACCC CACAGCACGT GCATCGCGGA 120
NAGCCTNCTT GGGATAAAAT ATGTTTACAA TAACTTGCCT ATTGCTGAGA TTAAACCTTA 180
CAGGCTGCGT TATTTTAGCA AA 202

SEQ ID NO:627

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00695

SEQUENCE DESCRIPTION:

GATCCATTGT ATCAGTACCT CACAATCAGA GTTGGCAAAT GATGGATGAG TGATTCAAGC 60
AGTGCACCCG GTGGAAGCTG AAATCCATCT GTGAATGGAA CTGAAGTGAA CGTGAATATG 120
CTGACTATAT CCTGGAAGCA TTTT TATACC ATCTTGAAAT TTCAACANAC TGGCTTTTGC 180
CAGTTAATCC AGCTGTCTTT CAAGAATAAA AGTTGGGGTT TTCAA A 226

SEQ ID NO:628

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00696

SEQUENCE DESCRIPTION:

GATCACCTGA GGTCAGGAGT TCGANACCAG CCTGGCCAAC AGGGTGAACC CCGTCTCTAC 60
TAAAAGTACA AAAATTAGCT GGGCGTGGTG GCGGACGCTG TAATCTCAGC TACTTGGNAG 120
GCTGAAGCAG GAGAGGTGCT GGAACCTGGN AGGCGGAGGT TGAAGTNAGC CGAGATTGCC 180
CTATTGCACT CCAGCTCGGG CGNCAACTGC AAGACTCCAT CTCAA A 226

SEQ ID NO:629

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00697

SEQUENCE DESCRIPTION:

GATCTGTAA TTCCTATCT AATAAATGCC TTNAATTGTN CTCATAATNA AGAATAAGTA 60
GGTATCCCTC CATGCCCTTC TGTAATAAAT ATCTGGAAAA AACATTAAAC AATAGGCANA 120
TATATGTNAT GTGCATTTCT AGAAATACAT AACACATATA TATGTCTGTA TCTTATATTC 180
AATTGCAAGT ATATAATAAA TAAACCTGCT TCCAAACAAC AATAAA 226

SEQ ID NO:630

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00698

SEQUENCE DESCRIPTION:

GATCAGAGTA ATTCTTTTGT ACATTGAAAT NAGGGGCTTG GTTTAAAAAA AGACCTTTCC 60
CTCTCCCTGC CCCTAGAACA ACCAGTATTA GAAGGTGCCA CCATTGGTGC TGCCTTCTNT 120
TCCCACAGCC TGTAACCTCAG TGTTTTGTAC TTTACTGAAT TGTGATGGNT AGAAACTTCG 180
TGGGTAGNNN NTGGGAATCA TCCNGTTAAA CAANACGGGN TTAAAA 226

SEQ ID NO:631

LENGTH:222

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00699

SEQUENCE DESCRIPTION:

GATCCTTGGT GTACTGAGCA GTTCTTTTGG GGCTTTTTCT TTCTGGGAAG CGGGAGGGAA 60
AGGAGCAAGG TGTCATCTG CTCTTCATTT GTATTTTGGT CCCAAAATGT AAATACAATT 120
TNTTATGTTA CTTTTTTGTG GTAACCTACCG AGATGAATAT TTAAATTAGA TAAGTTATAT 180
GAAAAGGAAA ATTCCATGTC TAAATAAAAA ACAAACCTCA AA 222

SEQ ID NO:632

LENGTH:222

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00700

SEQUENCE DESCRIPTION:

GATCTTCTGG ACAAACCTCT GCGATACGAC CATCAACAGA GACTGACTGC CAAANAGGCC 60
ATGGAGCACC CATACTCTA CCCTGTGGTG AAGGAGCAGT CCCAGCCTTG TGCAGACAAT 120
GCTGTGCTTT CCAGTGGTCT CACGGCAGCA CGATGAAGAC TGGAAGCGA CGGGTAATGC 180
GGCATTGATG CTTNCCAATA AAACCAACCA ACCAAACACA AA 222

SEQ ID NO:633

LENGTH:221

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00701

SEQUENCE DESCRIPTION:

GATCCACCCA GTTCTTTAGG CAACCACTGA TAGCATTTTC TTAAGTATTC TTCCAGATAT 60
CGTCTATGCA TATGTAAAAG TATCTGNCTT TCTCCNTTTA AAAACACAAT TGGNAATATA 120
TCATACTNGC TGGTTTGCAC CTNGCTTTTT TTGCTTAATA TATCTAGTTT ATAATGNCCN 180
AATGNGCAAA TTTTNGCATC NGCCCTAAAT ATCTACTGGN N 221

SEQ ID NO:634

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00702

SEQUENCE DESCRIPTION:

GATCACTCGT TTAAGTCCTT AGTTGTATGT NATCTCTTCT CTAGCAGGAA TTGGCAAAC 60
TTTTTGTAAG GGGGTAGAAA GTGAAGATTT TAAGGCTTTG CAGGCCATAT ATCCTCTNCT 120
GCAAAATNCTC AGCCCTGCTG TTGTAATGTA AAANCTNCCA CAGACACTAC ATGAACACGA 180
ATGAGTGTGG CTGGTGTTC AATAAACTT TATTACAAA 220

SEQ ID NO:635

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00703

SEQUENCE DESCRIPTION:

GATCATCAAA CCAGTCCACA AGCACAGGGA GATGCGTGGG CTGACATCTG CAGGCCGAAA 60
GAGCCGTGGC CTTGGAAAGG GCCACAAGTT CCACCACACT ATTGGTGGCT CTCGCCGGGC 120
AGCTTGGAGA AGGCGCAATA CTCTCCAGCT CCACCGTTAC CGCTAATATA NGTAAAGTTT 180
NGTAAATTC ATACTTAATA AACAATTTAG GACAGTCAAA 220

SEQ ID NO:636

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00704

SEQUENCE DESCRIPTION:

GATCCACATC TCAAAGAAGT GGGGCTTCAC CAAGTTCAAT GCTGATGAAT TTGAAGACAT 60
GGTGGCTGAA AAGCGGCTCA TCCCAGATGG CTGTGGGGTC AAGTACATCC CCAGTCGTGG 120
CCCTCTGGAC AAGTGGCGGG CCCTGCACTC ATGAGGGCTT CCAATGTGCT GCCCCCTCT 180
TAATACTCAC CAATAAATTC TACTTCCTGT CCACCTAAA 219

SEQ ID NO:637

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00705

SEQUENCE DESCRIPTION:

GATCCTCTCT CGACTNGCCA TACATTTCTT TCACAGCATT TACATAGTCC ATGATAGTTT 60
ACTTGTGGGA TTATTTGGTT AATCTTTGCC TTAAACACCA GGGTTCCTTG GGTGAAGGAG 120
CTTCTTTATC TNGGTAACAG CATTATTTCA AGCATAACTN GTAATATAGT NATATTACAT 180
ATATANCATA TATATATATN NCANANCANA TATAN 215

SEQ ID NO:638

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00706

SEQUENCE DESCRIPTION:

GATCTGGTTT CTTAGCAAAT TTCCCAGTAG GATGTCATGT AAGTNCCTTC CCCCTCTTAG 60
AGATTGAAGG CTGTAAGAGT CCAGATGGTG GAGCCAGGCT GTCTGGGTTC AAATGCCATC 120
TTTGACACTT GCAAGCTAAA TNACATTACT CAAATTAATC GTTCTGCACT TCAGCTTCCN 180
TGTCTATCAA ATAAAAAGAA TAGTACCNGC CAAA 214

SEQ ID NO:639

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00707

SEQUENCE DESCRIPTION:

GATCATTGTA GATGANCTGA AGCAAGANGT TATCAGTACC AGCAGCAAGG CAGAACCACC 60
CCAGTGCACC TCCCTGGCCT GGNCTGCTGA TGGCCAGACT CTGTTTGCTG GCTACACGGA 120
CAACCTGGTG CGAGTGTGGC AGGTGACCAT TGGCACACGC TAGACGTTTA TGGCAGNGCT 180
TTACATGTGG GGGAATAACN TGGCTTTTCT GTAAA 215

SEQ ID NO:640

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00708

SEQUENCE DESCRIPTION:

GATCAAACCA AGGCCCAGGC TGCAGCCCCA GCTTCAGTTC CAGCTCAGGC TCCCAAACGT 60
ACCCAGGCCC CTACAAAGGC TTCAGAGTAG ATATCTCTGC CAACATGAGG ACAGAAGGAC 120
TGGTGCAGCC CCCCACCCCC GCCCCTGGGC TACCATCTGC ATGGGGCTGG GGTCTCCTG 180
TGCTATTTGT ACAAATAAAC CTGAGGCAGG ATTTGTTAAA 220

SEQ ID NO:641

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00710

SEQUENCE DESCRIPTION:

GATCGAGAAC CACATCCTCA AGCTCTTCGA GAGCAACCTG GTGCCCCTA AACCTGAGT 60
GAAGGCCGCC TGCCGGGGAC TCAGACACTC AGGGAACAAA ATGGTCAGCC AGAGCTGGGG 120
AAACCCAGAA CTGACTTCAA AGGCAGCTTC TGGACAGGTG GTGGGAGGGG ACCCTTCCCA 180
AGAGGAACCA ATAAACCTTC TGTGCAGAAA 210

SEQ ID NO:642

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00711

SEQUENCE DESCRIPTION:

GATCTGGTTT TATTCCTGTA ATTCAGCCAC CTGATTTTGT GAGGGGGGGG AATAATATGT 60
GGTTTTTGTA CAAACATGTT TCTCAGTGTG TTGTNATTTT GGAAAAATG AGGGGAGGGA 120
GTTTGGCAAG AATGGAGAAA ATGAATGAAG AAGGCCTAAT CTCTCTCTT TTCAGTNAAT 180
AAATGGAACA CCATTTCTGG ATTCTAAA 208

SEQ ID NO:643

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00712

SEQUENCE DESCRIPTION:

GATCTGTACA TTGTAAAACA CCATTCAAGT GTCAGAATCA TTATTTTCCA CCACTTATCA 60
TGGTGCCTGA CAAGTCTTCC CAATAAATAC TGAATGAACA AATGAATGGC AGAAACATTA 120
AAATGAACAC TATGGGGAAA GGGGAAGAGA GGCAGAATCA GAAATTATCC NGAATAAATA 180
TTTATNCCAT TTGTCATCCN NCNAAA 206

SEQ ID NO:644

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00713

SEQUENCE DESCRIPTION:

GATCTATGTG GTGAAAATGC ACAGGAGCTT GGTAGACTGC GGGGGAAAGA GAGAGCTCCT 60
TTCGCCATGT TTTACCAGTN TGCTGTATA ACCTCTTAGG TTGTATCCTT TAATTTCCAG 120
CCTTTTAGGT TAGTTTCTGT AACAGAACAA GTGAGTCTGG GATGAAGTCC TCAAAGTACT 180
TCAAATGGTA ATTTTTTTGT TTTTGTAAATA GCTNAACAAA TAAACCNAGG GTTTCTATAT 240
TAAA 244

SEQ ID NO:645

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00714

SEQUENCE DESCRIPTION:

GATCTATGAA TGANAGGAGG GCAGACCACA TTGCTTTTNA CATCCATTTC CCCTCCTTCC 60
CATGGGCAGA GGACCAGGCT GTAGGAAATC TAGTTATTTA CAGGAACTTC ATCATAATTT 120
GGAGGGAAGC TCTTGGAGCT GTGAGTTCTC CCTGTACAGT GTTACCATCC CCGACCATCT 180
GATTAAATG CTTCTCCCA GCATAGGATT CATTGAGTTG GTTACTTCAA A 231

SEQ ID NO:646

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00715

SEQUENCE DESCRIPTION:

GATCTACATC TTTTCTAAA GAAAAGTGGA GCTTGCCTCC AGTTCAATTC ACAAGAGCAT 60
TTCCCTCCC ATGCCACCT TTTCTTGTGG CTGTCGCTAG GAAGGATGCA GAGGCTGTGT 120
GGTTTACCAA ATGCCTTAAC TTAGCAGTGA ATGACAACCTG TCAAACACAT GTTGAGGGGA 180
AATTTTACT GATTCACAAA 200

SEQ ID NO:647

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00716

SEQUENCE DESCRIPTION:

GATCTGCCGC AAGTGCTATG CTCGCCTTCA CCCTCGTGCT GTCAACTGCC GCAAGAAGNA 60
GTGTGGTCAC ACCAACAACC TGCCTCCAA GAAGNNGGTC AAATAAGGTT GTTCTTTTCT 120
TGAAGGGCAG CCTCTGCCC AGGCCCCGTG GCCCTGGAGC NTCAATAAAG TGTCCCTTN 180
ATTGACTGGG GNNGNANAAA 200

SEQ ID NO:648

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00717

SEQUENCE DESCRIPTION:

GATCCAGAAG GGGTTTGGTC TGGGACTTCC TTGCTCTCCC TCTTCTCAAG TGCCTTAATA 60
GTAGGGTAAG TTGTTAAGAG TGGGNNAGAG CAGGCTGGCA GCTCTCCAGT CAGGAGGCAT 120
AGTTTTTACT GAACAATCAA AGCACTTGGA CTCTTGCTCT TTCTACTCTG AACTAATAAA 180
TCTGTTGCCA AGCTGGAAA 199

SEQ ID NO:649

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00718

SEQUENCE DESCRIPTION:

GATCTTTTGT CCTCACTGCT TTCTAATGGG GAGGGCTGAG GGTTCCTGT CCCCACAGCA 60
 GGTATGTTGG GNTCTGCCCC AGCCCCACAC TTGCTCTGAA AACCAAGTN NAGAGCCCCT 120
 TCCCCTTGTT TTTATTTTAC TGTATAATA ATTATTAAC TCCTTGTAAT AGAAATAAAG 180
 TTTGTAATTG GAGTTCAGCT CAGAAA 206

SEQ ID NO:650

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00719

SEQUENCE DESCRIPTION:

GATCCTCGTT TTCTNGGTTT TGGTGATGTT GGAGGAGTAC CCCCCAGCCC ACCGCCCCGA 60
 TTCCTTTTTG CTTCTGGTTT GGAGCTCCGG ACCAGGACCT TCGTCCTGGT CAGTTTTTAA 120
 ATAATNATTT AGCAGTGTA CTTTTAAACC TCGTGACAT CTACANNNG CCCAATAAAG 180
 AAAGAGGAAG CCACGGTCAA A 201

SEQ ID NO:651

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00720

SEQUENCE DESCRIPTION:

GATCTGTTAT CTAGCTGAGT TCATTTTCATC TCTCCCTTTT TTATATCAAG TTTGAATTTG 60
 GGATAATTTT NCTATATTAG GTACAATTTA TCTAACTGA ATTGAGAAAA AATTACAGTA 120
 TTATTCCTCA AAATAACATC AATCTATTTT NGTAAACCTG TTCATACTAT TAAATTTTGC 180
 CCTAAAAGAC CTCTTAAA 198

SEQ ID NO:652

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00721

SEQUENCE DESCRIPTION:

GATCTTAAAC ATCGGTCAGA TGAGTCATAC ATTGGGTTAT TTTTATATA CATGTATACA 60
 CAAAATATTT CAAATTGAAA GCAACATCTT AATGGATTCA AAATATTAC AAGCTGTTGT 120
 CTAAAACAGG TGAGAAAAAA ATTTATAACT GTAAAANCA ATGCACATAT TGATATTTAA 180
 AATGCGTAAT TAAGAAA 197

SEQ ID NO:653

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00722

SEQUENCE DESCRIPTION:

GATCTGGACT GTCCTGGCAT CGAACTCTCC CTCTGTGTGT AATTGGAGGA GACCACAAGC 60
TGTTGTTTTG GGTGACTGAA GTATAAAGTG TTTNCTGTAC CTTAGATTCA CAAACTTTGT 120
ATTTTNAGTA CATATTTNNA AGAATTTCTA TAGTACATAT NTNNAAGAAT TTNATATCA 180
AATATACCGT ATACTNN 197

SEQ ID NO:654

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00723

SEQUENCE DESCRIPTION:

GATCACCGCC GCGAGTAAAA AAGGCTCCAG CCCAGAAGGT TCCTGCCCAG AAAGCCACAG 60
GCCAGAAAGC AGCGCCTGCT CCAAAAGCTC AGAAGGGTCA AAAAGCTCCA GCCCAGGNNN 120
GCACCTGCTC CAAAGGCATC TGGCAAGAAA GCATAAGTGG CAATCATAAA AAGTAATAAA 180
GGTTCTTTTT GACCTGTAA A 201

SEQ ID NO:655

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00725

SEQUENCE DESCRIPTION:

GATCTGCAGT TTAAGTTGCC ATGCTGCTAG GAAATTGTCC TTTNCTTTC TAGCTGTAA 60
CCTACTTCCT GGAAAAAGTA GTAGCTCTCT GTAGCATTAT GGAGTTTCAG TGGAACCAAA 120
TNTTTGCCAT TAAAACTGG CATTATACTG AACTATACAT TGAGAAATCA ATCAAAATAA 180
AANTTTTAC TTTCACAAA 199

SEQ ID NO:656

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00726

SEQUENCE DESCRIPTION:

GATCTGGTTT CTAGCAAATT CCCAGTAGGA TGTCATGTAA GTCCTTCCCC CTCTTAGAGA 60
TTGAAGNTGT AAGAGCCAGA TGGTGGAGCA GGCTGTCTGG GTTCAAATGC ATCTTTGCAC 120
TTNAAGCTAA ATGACATACT CAAATTAATC GTCTGACTCA GTTCCTTGCT ATCAAATAAA 180
AAGATAGACC TGCAAA 196

SEQ ID NO:657

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00727

SEQUENCE DESCRIPTION:

GATCTGCCTG CCTCAGCCTC TCAAAGTGTT GAGATTACAG GCGTGAGCAN CCGCTCCCTG 60

CCCAACACAT ATACCATCTG AAAATGTTAG AATTCTGAGT TGTGATTTTA TTGACTTGTT 120
GCTTGCTTTT CCTNAGGCTT TGTAAGTGT AATATGTTAA AGTGACTAT CCTAATAAAC 180
TGAATACTTT GGTATCTTAA A 201

SEQ ID NO:658

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00728

SEQUENCE DESCRIPTION:

GATCCTCCAT TGGAGTGGCC CAAATCTTTC CATCTAGGGC AAGTCCTGAA AGGCCCAAGG 60
CCCCCTCCCC AGTCTGGCCT TGGCCNCCAG CCTGGAGAAG GGCTAACATC AGTCATTGT 120
CAAGGCCACC CCCACCCAG AACAGAACCG TGTCTCTGAT AAAGGCTNTT GAAGTGAATA 180
AAGTTTAAAA ANCTAAA 197

SEQ ID NO:659

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00729

SEQUENCE DESCRIPTION:

GATCGTNTTT GTTTGTTTT TAAAGAAAGG TGAGATTGGC TTGGTTCTTC ATGAGCACAT 60
TTNATATAGC TCTTTTCCTG TTTNCCTTG CTCATTTCGT TTTGGGGAAG AAATCTGTAC 120
TGTATTGGGA TTGTAAAGAA CATCTCTGCA CTCAGACAGT TTACAGAAAT AAATGTTTTT 180
TTGTTTNNC AGAAA 195

SEQ ID NO:660

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00730

SEQUENCE DESCRIPTION:

GATCTCAAAC TCCAGGCTCA GAACTGTGAA GACTGTTTCC AGCCTGGCTG TGAGCCAAGA 60
CCTGGTTCCT GGTGGACCCT GAGGACAAAG TGTGATAAAA CCTCTGGCTC AGACTTGCTC 120
TACTGAAGGC TTCTTGGTTA TAAGATGCAT AAAGTCACTG GGGCTAGCTA AACAATAAAG 180
AGTTTATTGT GAGAAA 196

SEQ ID NO:661

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00731

SEQUENCE DESCRIPTION:

GATCTAATGT ACTGTAACCT TATCAGTGAA AGGTAAAATC TCAAATAACA AGTACAAACA 60
TTGAACAATT ACCTATAAAG ATTTNTAAAA GTAAAATTTT TCCAATAGAT TTCATTCTTG 120

TCATTTTGTA AGACGACCCT GCAGTCCACC NGTTTGTAAC TTTTAAATA AAATAGACAT 180
CTGTATTACT GAAA 194

SEQ ID NO:662

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00732

SEQUENCE DESCRIPTION:

GATCAAGAAA ATAAGGACAA CGTGAAGTTT AAAGTTCGAT GCAGCAGATA CCTTTACACC 60
CTGGTCATCA CTGACAAAGA GAAGGCAGAG AAAGTGAAGC AGTCCCTGCC CCCCAGTTTG 120
GCAGTGAAGG AACTNAATAA ACCAGACACA CACAGAACAG GCGATTATTT ATTTGTTTTT 180
AATTTATTTT GTCATATTTT TGTAACACGG CAGAAATGCA ATAAACCTA TATTTCAACA 240
GTGAAA 246

SEQ ID NO:663

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00733

SEQUENCE DESCRIPTION:

GATCATATTT TATACATGTG TAATAGATAA AAATAAACCA GATTGCAAAT CCTTTTTTAA 60
AATCCTAAAC CATGTACCAA GTTTTTGGTC CAAATTATGT AGGATAAGTT AAAGTTAAAT 120
TGCATTCTAT TAACCAATAT GAGTGTATTT CTGTAAGCAT AGTTATGTG AAATAAAGTT 180
TTAAAAACCA AA 192

SEQ ID NO:664

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00734

SEQUENCE DESCRIPTION:

GATCTTCACA CTAATGATGA GTGTGTGGCT ACATACAAAG GAGTTCCTT TGAGGTGAAA 60
GGGAAGGGAG TATGTAAGGG CTCAAACCAT GAGCAACAAG TGGAATCAAA TAAATGCTT 120
CCACNACCAA AAGACATTAG AGAAACCTT AAAAGTAATA AAGNGAAATA TATTTNTCAC 180
TTATACCTAA A 191

SEQ ID NO:665

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00735

SEQUENCE DESCRIPTION:

GATCTGAATC TNCCGGGGCC CCAGCCCACT CCACCCTGCC AGCAGCTTCC AGCCAGTCCC 60
CACAGCTCA TCAGCTCTCT TCACCGTTTT TTGATACTAT CTTCCCCAC CCCCAGCTAC 120

CCATAGGGGC TGCAGAGTTA TAAGCCCCAA ACAGGTCATG CTCCAATAAA AATGATTCTA 180
CCTACAAA 188

SEQ ID NO:666

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00736

SEQUENCE DESCRIPTION:

GATCTNAAAC CCAAGGGTCT GAGGCCAGGG CCGACTGCCG TAAGATGGGT GCTGAGAAGT 60
GAGTCAGGGC AGGGCAGCTG GTATCGAGGT GCCCCATGGN AGTAAGGGGA CGNCTTCCGG 120
GCGGATGCAG GGCTGGGGTC ATCTGTATCT AAAGCCCCTC GGAATAAAGC GCGTTGACCG 180
NCGAAA 186

SEQ ID NO:667

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00737

SEQUENCE DESCRIPTION:

GATCTGTAAA TAATCATTGC CAGTNTGACT TTTGTTCAAC AAAAGGATTG TACTGTATTA 60
AGAACCGATG AAAAAAATTN TCCTGTAACA TTTTTTAAAG AAAACTTTGT TTGTTTAAAG 120
AAAAAGTATT GTATAANTNA TAATTTTAAT TTAAATAAAC CTAAAATGCT TTGTGCTAAG 180
GAAA 184

SEQ ID NO:668

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00738

SEQUENCE DESCRIPTION:

GATCCCAGAA AAGTTCTAAT TTTCATTAGC AATTAATAAA GCTATACATG CAGAAATGAA 60
TACAACAGAA CACTGCTCTT TTTGATTTTA TTTGTACTTT TTGGCCTGGG ATATGGGTTT 120
TAAATGGACA TTGTCTGTAC CAGCTTCATT AAAATAAACA ATATTTGTAA AAATCATAAA 180

SEQ ID NO:669

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00739

SEQUENCE DESCRIPTION:

GATCTATCCA AGGTTTTGAC ATGTATCGAG AGTTTATTCC TTTTATTGC TGAATAGTAT 60
TAATATTCTA TAGTATGGAT GTAACATAGT GTGTTTAAAC ATTCGCCTGT TGAAGGACAC 120
TTGGGTTGTT TCCAGTTTCA GGTTCCTACA AATAAAGCTA CTCTGTGTGT TCATGTAAA 179

SEQ ID NO:670
LENGTH:179
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00740
SEQUENCE DESCRIPTION:
GATCAAATGC CAGTGTTCATT TTGTACTTAA GTTCCAAAGT AGGAACATTN TATACTTTTT 60
NCTGTATTGT AATAGGTAGT TTTGTATGAA ATCTTTTCTC CTCTCCCGTT GTACCGCATT 120
CTTTCAGCA TTGTGCTTTT TCCCTGGNCT TATTTGAAAA TTTTACTGTT TTATACAAA 179

SEQ ID NO:671
LENGTH:177
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00741
SEQUENCE DESCRIPTION:
GATCCAAGAA ACCAGGGCCA TGACCAGGTC CACTGTGGAG CAGCCATCTA TCTACCTGAC 60
TCCTGAGCCA GGCTGCCGTG GTGTCATTC TGTCATCCGT GCTCTGTTTC CTATTGGAGT 120
TTCTTCTCCA CATTATNTT GTTCCTGGGG AATAAAACT ACCATTGGAC CTAGAAA 177

SEQ ID NO:672
LENGTH:175
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00742
SEQUENCE DESCRIPTION:
GATCTGAAG TCCCGGAGAG CAACAGCACA GCTCTGCCTG ACGCTCTCAT TAAATCTAT 60
GCAGCCAAGC TCGGCACTTT GTAGCAGCCG GCCTTGCGAA GCCTCCTCAG CTCGGGGGGC 120
CGGGGACCCA GTGAGCCGAG AGCCCTCTGG NCTCCACTTA TGCATATGCA CCAA 175

SEQ ID NO:673
LENGTH:180
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00743
SEQUENCE DESCRIPTION:
GATCCGGAGA ATAGGGCANN AATATGTGCC GCCAGTGTTT CCGTCAGTAC GCGAAGGATA 60
TCGGTTTCAT TAAGTTGGAC TAAATGCTCT TCCTTCAGAG GATTATCCGG GGCATCTACT 120
CAATGAAAAA CCATGATAAT TCTTTGTATA TAAATAAAC ATTTGAAAAA ACCCTTCAAA 180

SEQ ID NO:674
LENGTH:176
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00745

SEQUENCE DESCRIPTION:

GATCTATTCA GATGGTTCTG ATGAAGTGAA ACGNGCCATG AACAAATCCT TTATCNNNGT 60
CGGGTGGTAC AGTTTGTAGT ACCAACTGGT CTGATGTAGG TAAAAGGAAA GTTGAAATCA 120
ATCCTCCTGA TGATATGGNN NGGAAAAAGT ACTAAATAAA TTAATTTGCT CTCAAA 176

SEQ ID NO:675

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00746

SEQUENCE DESCRIPTION:

GATCAAAACC AGTTTGATTT GGGAAATCTTC CCCTTTCCAA ATGAAATAGA GATGCAGTAC 60
TTAACTTTCC TTGGTGTGTTG TAGATATTGC CTTGTGTATT CCACTTAAAA CCGTAATCTA 120
GTTTGTA AAA GAGATGGTGA CGCATGTAAA TAAAGCATCA GTGACACTCT AAA 173

SEQ ID NO:676

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00747

SEQUENCE DESCRIPTION:

GATCCTAGCA TCCCTTTTCA CATGGTTTCT CCATGTATAT AACAGAATCA AGAAACAAAT 60
TTNAATTAAA CAATCTGTAA CAGAATCAAG AAACAAATAC ATTTAATTA AACAACTCTAT 120
ATGGAACAAA CATTCCCAAA TNCTAAGAAT AANTNTTCNT NTAAGTTTTT AAA 173

SEQ ID NO:677

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00748

SEQUENCE DESCRIPTION:

GATCCAAATA ATTTATTAAA TGA CTGGTCT CAGAACTGA ACTCATTAAAT GTCTCTGGTT 60
AACAAACTA CGCATCTCAT AGCCAAAGAG GAGATGATAC ATAATCTACA ATAAGGTCT 120
TAGTGCTTTA GAAAAAGTT AAAATTGGAA GTCATTAAAA AAAGACTGTT ATAATGGTGA 180
AA 182

SEQ ID NO:678

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00749

SEQUENCE DESCRIPTION:

GATCTTATGA GAAGAGGAAG GAGAGANGTC TCTNCCTATG CTCACACACA AAGGAAAGTC 60
CACATGAGGA CACAAGGAGA AGCCAAGAGN GCCCTTACCA GGANTTAAAC CTGCTAATCC 120
CTATTTTAAT TAGAACAGTG AGAAANTAAA TATCTGTATT TAAGCCTCAC AAA 173

SEQ ID NO:679

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00750

SEQUENCE DESCRIPTION:

GATCCAGAGA AAGCCAAAGC TCTTAGTAAA CACTTGCCAT CGTCAGTNTN ATGTCTCTAA 60
AAGTAGATGT TGAGGCTCTT NAAAATNCTC CTGGTGCTAC ATACATTCGG AAGAAGGGTG 120
GAAAAGTTAC TGGAGATAGT CAACCAAAGG AACAAGGACA GGNAGATTG AAA 173

SEQ ID NO:680

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00751

SEQUENCE DESCRIPTION:

GATCCAATCC ATTCAAGCAGT CCATTGAAAG GCTCTTAGTC TAAACCTGTG GCCTCTGCCA 60
CGTNGCTCCC TGCCAGCTTC CCCCTGAGG TTGTGTATCA TATTATCTGT GTTAGCATGT 120
AGTATTTTCA GCTACTCTCT ATTGTTATAA AATGTAGTAC TAAATCTGGA AA 172

SEQ ID NO:681

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00752

SEQUENCE DESCRIPTION:

GATCAAATTT AAAC TTCATT TTGGGGGGTA TTTGGTACT GTAATGGGGT CATCAAATNA 60
TTAATCTGAA AANAGCAACC CAGAATGTAA AAAAGAAAAA ATTGGGGGGA AAAAGACCAG 120
GTCTACAGTG ATAGAGCAAA GCATCAAAGA ATCTTTAAGG GAGGTTTAAA 170

SEQ ID NO:682

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00753

SEQUENCE DESCRIPTION:

GATCGGAACA GTCCTTACT CTGAGGAAGT TGATTCTTAT TTGATGGTGG TATTGTGACC 60
ACTGAATTCA CTCCAGTCAA CAGATTCAGA ATGAGAATGG ACGTTTGGTT TTTTTTGTGTT 120
TTTGTTTTTG TTTTTCCTT TATAAGGTTG TCTGTTTTTT TTTTNNAAAA AATNGCANCA 180
GTNCATGGCC CCCATCATT ANANGNGAGG ANTNCANCAG AAAATAAAAT ATNCACTCN 239

SEQ ID NO:683

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00754

SEQUENCE DESCRIPTION:

GATCCAGACA GCCATCAGGG AAAGCTTGTN TTAAACCGAA CTGTCACACT GAAGGAAGAC 60
CCAGGAAAGG TGTGAGCTGG AAGCACTGAA CCTACCTCAT CTCCTGGAG GGTGTGGCTA 120
CGCTCGCCAC CCCAAATTCC ATGTCAATAA AGAACAGCTA AATTCTCAA 170

SEQ ID NO:684

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00755

SEQUENCE DESCRIPTION:

GATCTTTCCA TTGGAAATAA CTGGAAGTGA AGAGGTTTGT TTGCTTGAC AGTGTGAGAT 60
GAGGAACACC ACTATCTTAA TTTGTGATA CACTGCATTT GCTGGTGCTA TTTNATACA 120
GTGAAGCAAC AGCTTTGCAG CAAAATAATA AAATACTTCT ANGTTAAA 168

SEQ ID NO:685

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00757

SEQUENCE DESCRIPTION:

GATCCATCGT NATGTCTTAT TTAAGGGGAA CGTGTGGNCT ATTTAGGCTT TATGGCCCTG 60
AAGTAGGAAC CAGATGTCGG ATACAGTTCA CTTTAGCTAC CCCCAAGTNT TATGGGCCCCG 120
GAGCGAGGAG AGTAGCACTC TTGTNCGGGA TATTGATTTC ACGGAGAAA 169

SEQ ID NO:686

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00758

SEQUENCE DESCRIPTION:

GATCTGCTAC TAAACAGAGT TCAAAACTT TCCAGAGTAA TTAATATGTA AAGCCANGTA 60
ACTAACAAAN GATTTGCTTT AGAGATAATT ATTTGGAATT TTTATAGCTN ACTTCACAAT 120
GTGCCCAGGT CAGCTGTATA AAATAAATAC TGCATTNTNG TTTCTTTCAA A 171

SEQ ID NO:687

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00759

SEQUENCE DESCRIPTION:

GATCCTGACA CTAAGGAAAT GCTGAAGCTT TTGGACTTCG GCAGTCTGTC CAACCTTCAG 60
GTCACCTCAGC CTACAGTTGG GATGAATTTC AAAACGCCTC GGGGACCTGT TTGAATTTT 120

NCTGTAGTGC TGTATTATTT TCAATAAATC TGGGACAACA GCAGAAA

167

SEQ ID NO:688

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00760

SEQUENCE DESCRIPTION:

GATCAGCGAT GAAGAGGAAG AAGATGATGA TTGAAGTATG AAATATGAAA ACATTTTATA 60
TATTTNATTG TACAGTTATA AATATGTAAA CATGAGTTAT TTTGATTGAA ATGAATCGAT 120
TTGCTTTTGT GTAATTTTAA TTGTAATAAA ACANTTTAAA AGCAAA 166

SEQ ID NO:689

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00761

SEQUENCE DESCRIPTION:

GATCTATTTG GTCTTTCTCA TGTCCCCAC TGGTCTGTAC CCCAGGGAGC GGGTGCTTGT 60
ACTGTGTGAA TCCAGTGTTT ACATTCACAC TTAATGACTT CCTTGGCACC AATCATGTAT 120
TTCACCGTTT GCACTTNTTG TATTTCAATA AAAATGTTGA TGCAAACTG CTAAA 175

SEQ ID NO:690

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00762

SEQUENCE DESCRIPTION:

GATCGACTCT ATCATCCAAC GCTCCGAGGA CAGCCCATGT CCCACCCCN GNGACCCGGA 60
CCCGGCCAGC AGGACCCACT GAGANGGGCT GCCCGGNCT NCTCAGCTGC CCACACCCAC 120
ACTGTCCAGC ATCTGGCACA ATAAACATNC TCTGTTTTGT AGAAA 165

SEQ ID NO:691

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00763

SEQUENCE DESCRIPTION:

GATCAAGAAA TAAACATAAA CATCTCAGAA TGCTCCTTCA TTACCAGAGT CACTACCTGA 60
TTATGTCTTA ATGGGTTACA TAATGACAGA GGGTATCTCA TATATGTCNCT TTTCCAAACA 120
TAAAATAACT TTTGTTTTG TTTGATTGAA AAAAAATTTA GAAA 164

SEQ ID NO:692

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00764

SEQUENCE DESCRIPTION:

GATCCAGATT CTCACTTAAT GGGGTTTATA TGGACTTTCT TCTCATAAAT GGCCTGCCGT 60
CTCCCTTCCT TTGAAGAGGA TATGGGGATT CTGCTCTCTT TTCTTATTTA CATGTAAATA 120
ATACATTGTT CTAAGTCTTT TNCATTAAAA ATTTAAAACT TTTCCATAA A 171

SEQ ID NO:693

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00765

SEQUENCE DESCRIPTION:

GATCGACTCT ATCATCCAAC GCTCCGAGGA CAACCCNTGT CCCCACCCCC GGGACCCGGA 60
CCCGGCCAGC AGGACCCACT GAGAAGGGCT GCCCGGNTCA CCTCAGGGGG NCACANTTTA 120
CACTCTCCAG CATCTGGCAC AATAAACATN CTCTGTTTTG TAAA 164

SEQ ID NO:694

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00766

SEQUENCE DESCRIPTION:

GATCTAATGG TCTAAAACT GGAGTTTCCG GACACAAGCT CTCCCTTTNC CTGCAACCAT 60
CCATGCAAGA TGTNACTTGC TCCTCTNTGC TTTCTGCCAT GATTGTAAGG CCTCCCCAGC 120
TACATGGAAC TNTAACTCCA TTAAACCTCT TTNTTTTGT AATTGAAA 168

SEQ ID NO:695

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00768

SEQUENCE DESCRIPTION:

GATCCGCCCA CCTCAGCCTC CTAAAGTGCT GGGATTACAG CTGTGAGCCA CCCTGCCCCG 60
CCACTTTTGT ATGATTTCTA ATGTATTTGT AATTACCTA ACAAATTGCC TAATCTGCTA 120
TGTTAATGTA TTTATGAATT AAAATAAATA CGACTGCAAA 160

SEQ ID NO:696

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00769

SEQUENCE DESCRIPTION:

GATCCGTAGC GGCATGTTCT GGCTGCGCTT CTAGGCGGGA AGCCTATGTA AGCAAGAGGG 60
CAGGGCCGGG GTTTGTGGTC CCCCCCCCAC CACAAACACA GCACTTCGGC TCCTCTAACC 120

TGTGCCACAG GTGACCACCA ATAAAATCCT CTGCTGAGAA A

161

SEQ ID NO:697

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00770

SEQUENCE DESCRIPTION:

GATCTCCCTG CCCCCACCC AGTTCCCCAA CCCACTCCCT TCCAACAACA ACCAGCTCCA 60
ACTGACTCTG GTCTTGGGAG GTGAGGCTTC CCAACCACGG AAGACTACTT TAAATGAAAA 120
AANGAAATTG AATAATAAAA TCAGGAGTCA AAATTCAAA 159

SEQ ID NO:698

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00771

SEQUENCE DESCRIPTION:

GATCTTTTNN TTTTTTTTAA GTCTCACAAG ACATGGGGCA TCTCCACAAA TTTAAGTTCC 60
TGTCCATTG GAAATTTGTT TCTATGTGTA CAGTTTGTCA GAGAAAAACA AAGTTTTTGT 120
ATGANTACAG AATGTGATTT ACGCAAGATT TGACAGAAA 159

SEQ ID NO:699

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00772

SEQUENCE DESCRIPTION:

GATCTACCTA TCTTCAGGAT GGAACCTTGG GGAAAAATAA AATTGAGGGG AAGTAAAAAG 60
TATGTAACAC TTCCAGTTGT GAGCCAAGAT TGTAACCAGA GAGCAGCCAG GAGCTTCCTG 120
TCAGTAACCA TTTTTTCAAT AAATACTCTT TCATGTACAA A 161

SEQ ID NO:700

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00773

SEQUENCE DESCRIPTION:

GATCCTCTCA CCTCAGATTT CCAAAGTGTT GGATTATAGG TGTAAGCCAC TGAGCCCAGT 60
TTGAATGCTT TTTTATATAT TTTTGGCCA TTTGTATGTC ATCTTTGGAG AAATGTCTAT 120
NCAAATCCNT TGCTCATTAA AATNATTTNC TGATAAA 157

SEQ ID NO:701

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00774

SEQUENCE DESCRIPTION:

GATCTGGCCG TNAGCCGCGA NCCGCTGNGA ACTCCACTCG GGGAACCTCT TTCCAAGCTG 60
ACCTCAGTTT TCTCACAAGA ACCCAGTTAG CTGATGTTTT ATTGTAATTG TCTTAATTTG 120
CTAAGAACAA GTAATAAGTA AATTTTTAAA AAGCCTTAAA 160

SEQ ID NO:702

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00775

SEQUENCE DESCRIPTION:

GATCAAATTG TGCAGTACTT TGTGCATTCT GGATTTTAAA AGTTTTTNAT TATGCATTAT 60
ATCAAATCTA CCACTGTATG AGTGGAAATT AAGACTTTAT GTAGTTTNA TATGTTGTAA 120
TATTNCTCCA AATAANTCTC TCCTATAANC CACCAGGGAA A 161

SEQ ID NO:703

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00777

SEQUENCE DESCRIPTION:

GATCAGAGCT TATACTTAAT TAAGGTTTTA TACACACCAG TTCCCCAGTA AATNCAAATT 60
TAACAAGAAA ATCAGACATG TCATATGTNC AAAATGTCTA TGGCAAACAA TCATTTTGCA 120
TTCCTGCAAA TAAATTGTT TTATACTGTA GAAA 154

SEQ ID NO:704

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00778

SEQUENCE DESCRIPTION:

GATCTGTTTG TTCCCTGAGC TTTTAAATA CCCTGTGAAA ATTTNTTTC CTCCCTTGGT 60
CATCATGCAT CTAATTGTGG GGAAATGTTT GTCAAACCAA CCTGCAAAGC AGCATGGTGT 120
AGTTGAGAAG AATAACAGA GAAGACTGGG AAA 153

SEQ ID NO:705

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00779

SEQUENCE DESCRIPTION:

GATCTTTGGA CAGAAGCAGC TCTTTCCCGA ACACTTGTGG CGTCTGGNAC GGCCCCACCC 60
NTCCCCCACC ACTCCCTCCC ACGGGGCTCC GGGAGACAGG CCGGCCCTGC ACCTNACCCC 120

ACCGTGACCT CAATAAACGT TGAAACTNCA AA

152

SEQ ID NO:706

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00780

SEQUENCE DESCRIPTION:

GATCTATCCT TTACTTGAAA GCTTTTGAAA AGTGGAAGG TCATTTTGTT GCATTTCCCC 60

ATTTCTTGTT TTTAAAAGAC CAACAAATCT CAAGCCCTAT AAATGGCTTG TATTGAACTT 120

TTACATTTGA ATTAAAGATG TTAACATGA AA 152

SEQ ID NO:707

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00781

SEQUENCE DESCRIPTION:

GATCTAGTAT GCTCCTGGTC TAATGCATTT ACATTGTTTA GGTAAGTGGT TCCTAATAAA 60

AAGAATTATA AAATACCCCTC AAATTAACAA TTCAATNGCA TATAATAGCC TAACTCAGTA 120

AGANTATTAA AACTTACTAT TATNCTTCAA A 151

SEQ ID NO:708

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00782

SEQUENCE DESCRIPTION:

GATCTANTCT GTGCTACCTG ATTAACACAC AGCAGGCTTA CTGANTGGCT TCATTTTCAGA 60

TTTAGTTGAT TTCTCCACCA AATNCATGTC ATGTATTCTC AATAGGCTGT ATTCCCAGCA 120

GNCAATAAAT GGAACACCCG TANAANCNCA AA 152

SEQ ID NO:709

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00783

SEQUENCE DESCRIPTION:

GATCCCCAGG GTTCTTTTGT CTTATTTATG GAGAAAAACC GGTCACTTTG TCCAGCGCAC 60

TGTGAGGCCC CCACTCAGGC CAGCCCTGGC CCCCCCTTGG TACTTGGAAC CGAAGTTACA 120

GATTATATTA AAATAATAAT GTACAAA 147

SEQ ID NO:710

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear
CLONE:HUMGS00784
SEQUENCE DESCRIPTION:
GATCTTATAA AAGGAAATTC TAGCAGTTTT AGAAATAGGT GGGAAAAACT CAAATATTCC 60
TCCTATCTGC ACCAAAAAGT TTATTTGTGG TATATAAAAT GAATATTGTT TTATAATAAC 120
TTGTTAATAA AGTACTTTCT AATAAA 146

SEQ ID NO:711
LENGTH:145
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00785
SEQUENCE DESCRIPTION:
GATCAATGAA GTGAGAAATT GTTGAGAAGG ATACAGTTTG TTTTAGATG TCCTTTGTCC 60
AATGTGAACA TTTATTCATA TTGTTTGTAT TACCCTCGTG TTAACAAG ATGGCAATAA 120
ATACTATGGG ATTGTTTGTA TAAA 145

SEQ ID NO:712
LENGTH:145
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00786
SEQUENCE DESCRIPTION:
GATCTCCCTT CAGCAACTTA TTTTGCTTAA ATTGCTTTAA ATCTTAAGCA ATATTTTAA 60
TTCAGTAAAC AAATCTTTC ACAAGGTACA AAATCTTGCA TAAGCTGAAC TAAAATAAAA 120
NTGAAAAGGA GAGATTAANG GTAAA 145

SEQ ID NO:713
LENGTH:145
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00787
SEQUENCE DESCRIPTION:
GATCTAGAAG CAGAGGAATC CCAGCGCCTT TAAAAGTTG TTATGTGGTT TTCTTTTAA 60
AAGTCCTGT TTTGGAAAG TAGAATTAT GGTACAACG TATGTTTATT ATTTGTACAT 120
AAAATAAAAC CATTTAATAA GTAAA 145

SEQ ID NO:714
LENGTH:154
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00788
SEQUENCE DESCRIPTION:
GATCTATGCC TAACAGAGCC CCAGTACAAC TATTTTNCAG AATGGCTGTT ACCCTAGAAT 60
TACTATAGCA CATATTGAGA TATAGTTGTA CTCCCTAGTA GATAGGAACT GACCCCAACA 120

ATAAACTTTG ATAATAAAGA AAAAAAANCG NAAA

154

SEQ ID NO:715

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00789

SEQUENCE DESCRIPTION:

GATCAACCTT AAAGGAACT GCTATCCGAA CTTGGCTATC TCACAGCAGA GCCAGTTTGA 60
CGAATGGGTA AAACCTAAGG ACATGCTGGG TCCAAAGTGA TTTACATAAA TNTATAATGA 120
AAATAAACAT GTATAANATT TAAA 144

SEQ ID NO:716

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00790

SEQUENCE DESCRIPTION:

GATCCGTGAT GCCACTTACC TGTGTGTTTG GTAACAACAA ACCAACATCA TGGAGGTCCC 60
TGGATTGAAA AAGGAGCCTC TCCCACTCCT CCTACCACCA AAGTGGTTAG GACNCTATAT 120
AANTAAAAAC AAGGCTTTTG GAAAATAAA 149

SEQ ID NO:717

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00791

SEQUENCE DESCRIPTION:

GATCTGGCTG AACCAGTTCC ACAAGGTTAC TGTATACATA GCCTGAGTTT AAAAGGCTGT 60
GCCCCATTCA AGAATGTCAT TGTTAGACTT TGAAATTCT AACTGCCTAC CTGCATAAAG 120
AAAATAAAAT CGTTTAAAT CAAGAAA 147

SEQ ID NO:718

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00792

SEQUENCE DESCRIPTION:

GATCTGGGGC AGCCACCTTG CTACCATGAA GGAAAGGCCA AGACAATCAT CCACAGCTAT 60
TCCCTCCAGC ATCTGGTTCT GTACAAAAAT TAAATGCTTA TTTNTTTAAG TCAA 115

SEQ ID NO:719

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00793

SEQUENCE DESCRIPTION:

GATCGCCACT GTAAAGGTCC TAGAGTTGCC TGTTTGTCTC TGGAGATGGA ATTAAACCAA 60
ATAAAGAGCT TCCACTGGAG GCTTGTATTG ACCTTGTAAC TATATGTTAA TCTCNTGTGA 120
AAATAAAATA TAGCTTGTGA AA 142

SEQ ID NO:720

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00794

SEQUENCE DESCRIPTION:

GATCTGTGCC TACNTTTTAC CACCCTCTTG ATTGGAGCTT TTGTNATGCA GCTACCATNN 60
TTCAAAAAA TAAAAATTA AAAAAAAAAA ATCTGCCACT TATCCAAGTC CACTAGAGGC 120
CACTGTCTTC AAAGNTTNTN TN 142

SEQ ID NO:721

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00795

SEQUENCE DESCRIPTION:

GATCCAGGTG ACTCTGAACA TCATTAGAAG CATGCCAGAA CAGACTGGTG AAAAGTAAAC 60
CTTTTCACCT ACAAATTTTC ACCTGCAAAC CTTAAACCTG CAAAATTTTC CTTTAATAAA 120
ATTTGCTTGT TTAAANAACA NNGAAA 147

SEQ ID NO:722

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00796

SEQUENCE DESCRIPTION:

GATCCAGAGC CTCCCGGCCC TTCTCCGGTG TCCTGTACCA ACTCTTCTAT TTAAGAGAAC 60
CTCAGATGAT GTACCTGAGC CTCAGGGTTT TGTTTCAGAG GGATATAAAT NATTTAAAAA 120
TTAAATGAAA ACGTTGCAAA 140

SEQ ID NO:723

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00797

SEQUENCE DESCRIPTION:

GATCGGCCAC TACCTGGGCG AGTTCTCCAT CACCTACAAG CCCGTAAAGC ATGGCCGGCC 60
CGGCATCGGG GCCACCCACT CCTCCCGCTT CATCCCTCTC AAGTAATGGC TCAGCTAATA 120
AAGGCGCACA TGA CTCCAAA AAAAAATAAA 150

SEQ ID NO:724
 LENGTH:140
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS00798
 SEQUENCE DESCRIPTION:
 GATCAGGGTA AGGCAGTCAG GCGGGTGTTT ACCACTGCCT TTCCTTCCTC TGAGCGTGAG 60
 AACACTGAAC CCAGCCACTG CCCCTGGGTC CCTGTCTCTG AAATNGTCTA ATAAATCCTT 120
 TNCCCTTCTT GAGCTACAAA 140

SEQ ID NO:725
 LENGTH:141
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS00799
 SEQUENCE DESCRIPTION:
 GATCCGAATC GAGGCCAACG AGGCCCCGGA TGAAGGCCCN GGAGTAGGCG AGCCAGACGA 60
 CAAGGTTGAC CTCAGCTTCG GAGCCACCTC TGGATGAACT GCCCCAGCC CACGNCCNAT 120
 TAAAGACCCG GAAGCCTGAA A 141

SEQ ID NO:726
 LENGTH:136
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS00800
 SEQUENCE DESCRIPTION:
 GATCAGCTTT ACCTATGGTG CTTTGCCTTT AACTAGAGTG TGTGATGGTA GATTATTTCA 60
 NATATGTATG TAAACTNTT TCCTGAACAA TAAGATGTAT GACCCGGAGC AGAAATAAAT 120
 NCTTTTCCTA ATTAAA 136

SEQ ID NO:727
 LENGTH:135
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS00801
 SEQUENCE DESCRIPTION:
 GATCATGTCA TTCAATTCCA GTCACCTCTT CTGCAATCAT GACCTCTTGA TGTCTCCATG 60
 GTGACCTCCT TGGGGGTCAC TGACCCTGCT TGGTGGGGTC CCCCTTGTA CAATAAAATC 120
 TATTTAACT TAAA 135

SEQ ID NO:728
 LENGTH:135
 TYPE:nucleic acid
 TOPOLOGY:linear

CLONE:HUMGS00802

SEQUENCE DESCRIPTION:

GATCTTAAAC ATTGTTTGT AGTGTATATT ACTTGTCCAT TCCTTTAAGG GGAGCAGCCT 60
GCACTCTTTT GTAGATTACT TTTGGGGGAT ATATTNNAG AATNATGAAA CGGAATAAAA 120
TTGTAAAAAA CTAAA 135

SEQ ID NO:729

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00803

SEQUENCE DESCRIPTION:

GATCATGTTA CCATATCAAG CTGAAAATGT CACCACTATC TGGAGATTTC GACGTGTTTT 60
CCTCTCTGAA TCTGTTATGA ACACGTTGGT TGGCTGGNTT CAGTAGGGGG NTATTNAGG 120
CCTTTCTTTT TAAA 134

SEQ ID NO:730

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00804

SEQUENCE DESCRIPTION:

GATCTANGTT GCCTACCTTG AATTTTTTTT TAAATATATT TGATGACATA ATTTTGTGT 60
AGTTTATTTA TCTTGACAT ATGTATTTTG AAATCTTTTA AACCTGAAAA ATAAATAGTC 120
ATTTAATGTT GAAA 134

SEQ ID NO:731

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00805

SEQUENCE DESCRIPTION:

GATCTCACTA AAGGATTTCT ATTTGCTGTC AGTTAAAAAT AAAGCCCTAA ATACATTTTT 60
ATTCTTTCTA CTGAGGGCAT TGTCTGTTTT CTTTGTAAT GCCGTACAAT AAACAAATTA 120
TTTAATAACC TAAA 134

SEQ ID NO:732

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00806

SEQUENCE DESCRIPTION:

GATCTTGGCA CTCTCCATGT TCTCTACAAG AAGCTGTGGT GATTGGCCCT GTGGTCTATC 60
AGGCGAAAAAC CACAGATTCT CTTCTAGTT AGTATAGCGG ACTTAATAAA AGAGGAAAAA 120
ACTCTTGCTT CAGTAAA 137

SEQ ID NO:733

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00807

SEQUENCE DESCRIPTION:

GATCCTCGAA CGGAAAGCCA AATCTCGCCA AGTAAGGAAA GGAAAAGGGC AAATACAAGG 60
AAGAAACCAT TGAGAAGATG CAGGAATAAA GTAATCTTAT ATACAAGCTT TGATTAAAAC 120
TTGAAACAAA GAAA 134

SEQ ID NO:734

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00808

SEQUENCE DESCRIPTION:

GATCAGTGGC TTTGAATGAA ATACAGATGC ATTATCCAGA ACTGAAGTTG CCCTACTTTT 60
AACTTTGAAC TTGGCTAGTT CAAAGATAGA CTCTTCTTTT GTAAAGTAAA TAAATTCTTC 120
AAAATGCTTA AA 132

SEQ ID NO:735

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00809

SEQUENCE DESCRIPTION:

GATCNAACC TTTTCAATAA AAGGCAAAAC AAACCAATNT CCNAACATAG CATTACAGCC 60
TTTAAACCA TTCACTNCTC ATAGTGATTC ACAGAGGACA AGAGATTAAA GTGCTGGATT 120
TTAAATGTCA AA 132

SEQ ID NO:736

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00810

SEQUENCE DESCRIPTION:

GATCANATGC AACCNCACAA CCTCGGCTGA GTCTTGAGAC TGAAAGATTA AGCCATAATG 60
TAAACTGCCT CAAATTGGAC TTTGGGCATA AAAGAACTTT TTTATGCTTA CCATCTNTTT 120
TTTTTCTTAA N 131

SEQ ID NO:737

LENGTH:383

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00811

SEQUENCE DESCRIPTION:

GATCATACAC CTGCTCACAG GCGAGAACCC TCTGCAGGTC CTGGTGAACG CCATCATCAA 60
CAGTGGTCCC CGGGAGGACT CCACACGCAT TGGGCGCGCC GGGACTGTGA GACGACAGGC 120
TGTGGATGTG TCCCCCTGC GCCGTGTGAA CCAGGNCANN TGGCTGCTGT GCACAGGCGC 180
TCGTNAGGCT GCCTTCCGGA ACATTAAGAC CATTGCTGAG TGCCTGGCAG ATGAGCTCAT 240
CAATGCTGCC AAGGGCTCCT CGAACTCCTA TGCCATTAAG AAGAAGGACG AGCTGGAGCG 300
TGTGGCCAAG TCCAACCGCT GATTTTCCCA GCTGNTGCCC AATAAACCTN GTCTGCCCCT 360
TTTGGGGGAA GCCCCGAAGC AAA 383

SEQ ID NO:738

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00813

SEQUENCE DESCRIPTION:

GATCCAGCTG CCAGAGGATG AGTGACCAGT TGCTAAGTGG GGCTCAAGAA GCACCGCCTT 60
CCCCACCCC TGCCTGCCAT TCTAACCTCT TCTCAGAGCA CCTAATTAAA GGGGCTGAAA 120
GTCTGAAA 128

SEQ ID NO:739

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00814

SEQUENCE DESCRIPTION:

GATCTGGATT ACNATGTAAA TTCACAGCAG TAAGATAATA TAAATTTTGT TGAATGTATT 60
AATCATATAT GGTCTGAAAA TGTGGGTTTT NATTTGGCAC ATTTAAATAA AATGTTTCTA 120
ACTAGAAA 128

SEQ ID NO:740

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00815

SEQUENCE DESCRIPTION:

GATCAAGAAT GAAAAAGACA TCATATGAAN NGGGAGAAAC TATTGCACA CCATCTATCT 60
CATGGTTTGG TTAATATTCA AACTATATNA GCAGAATGTG TAAGGATATC CTACAACTCA 120
ATAGCAAA 128

SEQ ID NO:741

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00816

SEQUENCE DESCRIPTION:

GATCCAAGGG GAAACTGCAG GTCAAGGGCT GATAACGGCC ATGCAGGATG CTTGATGCTG 60
CGTCCCCCGC TGCTTGCCGC CCCCCACCCC GCCATTTTGT ATAATAAAGC TCCCTGTGTA 120
TTCTCAAAAA AAANCAAA 138

SEQ ID NO:742

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00817

SEQUENCE DESCRIPTION:

GATCCCTGAG ACTGAGGGGT TTACGGGCTG TGAATGGACC TTCAGCCCTN CCCACCCTCC 60
CTCCCCACTG CTGCTGAGTC TGTCTGATGT TTTGGTTGTG TGAATAAATA TAATTCCCCT 120
CTGGAAA 127

SEQ ID NO:743

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00818

SEQUENCE DESCRIPTION:

GATCGGGTAG CTCAAAAGAA GGCAAGCTTC CTCAGAGCTC AGGAGCGGGC TGCTGAGAGC 60
TAAACCCAGC AATTTTCTAT GATTTTTTCA GATATAGATA ATAACTTAT GAACAGCAAC 120
TAAA 124

SEQ ID NO:744

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00819

SEQUENCE DESCRIPTION:

GATCAGAAAT TCTCTTGCTT GAGAGATTTT TTTTGTCTT CTGTTGACTA CATAGTTTCA 60
AATCTCTCTN TATTTTCATGA TGATATATAA ATNGCTTTTA ATTATATNAA ATNTTAATTN 120
NCCN 124

SEQ ID NO:745

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00820

SEQUENCE DESCRIPTION:

GATCTCATTA CCCTGTTTCC GAATTCTGCC GTGTGTATCC CCAACCCTTG ACCCAATGAC 60
ACCAACACA GTGTTTTTNA GCTCGGTATT ATATATNTTT TTCTCATTAA AGGTTTAAAA 120
CCAAA 125

SEQ ID NO:746
LENGTH:123
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00821
SEQUENCE DESCRIPTION:
GATCCGTGGC TTAAGACAGG AGATTATCTC TNTACTCCAG TGGCATCTCC TTAGCCAAGA 60
TGTGAAATTA AAATCATAGT TCGCCTCATT TAAAAATNCT AATAAAGCAC TCAAACCTTG 120
AAA 123

SEQ ID NO:747
LENGTH:122
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00822
SEQUENCE DESCRIPTION:
GATCCAAATC TGGTTCAAAC ATTCAAAAC TCAAAGATAA TTCATCTTTC AGCTAATGCT 60
TGTGGTTCGT TTGTTCCCTT GAAAAAAAT AAAAACAGTT GCCTTCNGGG AAAANTTNA 120
AA 122

SEQ ID NO:748
LENGTH:122
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00823
SEQUENCE DESCRIPTION:
GATCTTGTGT TTTAGGNTGG GCATTTTCAC TCTTCTGCCT TAAATCCCTA ACCCCATGGA 60
GCTGACATTC TAGTGCGGCT GAGGGGAGGG GAAACATTGT AAAATAAATC ATAAAAATTA 120
AA 122

SEQ ID NO:749
LENGTH:122
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00824
SEQUENCE DESCRIPTION:
GATCTCTGGG CTGGGGACTG AATTCCTGAT GTCTGAGTCC TCAAGGTGAC TGGGGACTTG 60
GAACCCTAG GACCTGAACA ANCAAGACTT TAAATAAATT TTAAATGCA AAAACTCGGA 120
AA 122

SEQ ID NO:750
LENGTH:122
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00825

SEQUENCE DESCRIPTION:

GATCNTAGAA GGGCTTCCCA ACCNNATTTG CAACATCCAA ATTGTCTTCA ATTNAAGGAA 60
GGCCTTATCA GTTCATAGAT GANCTTCATT GTAAAAATAA ATGTACTTTG CACCACTTCA 120
AA 122

SEQ ID NO:751

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00826

SEQUENCE DESCRIPTION:

GATCCACTTC TGTNATTANG TAAATGGATG TNTCGTGATG CGTCTACAGT TATTTATTGT 60
TACATCCTTT TCCAGACACT GTAGATGCTA TAATAAAAAT AGCTGTTTGG TAACCATAGT 120
TTCATTGTN CAAAGCTGTG TAATCGTGGG GGTACTATCT CAACTGCTTT CGTATTCATT 180
GTATTAAG AATCTGTTTA AACAACTTT ATCTTCTCTN CGGGTTTAAG AAACGTTTAT 240
TGTAACAGTA ATTAAATGCT GCCTTAATTG AAA 273

SEQ ID NO:752

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00827

SEQUENCE DESCRIPTION:

GATCAAAAAG AAACCTTTGTT TTTCCGCAAT TGAAGGTTGT ATGTAAATCT GCTTTGTGGT 60
GACCTGATGT AAACAGTGTC TTCTTAAAT CAAATGTAAA TCAATTACAG ATTAAAAAAA 120
AAAGCCTGTA TTAAAGAAC GAAA 144

SEQ ID NO:753

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00828

SEQUENCE DESCRIPTION:

GATCAGAGGA AAAATCCAGT GTGACAGAGT GCAAGTNAGA AGACCTGGCT TTNATCCCA 60
GCTTTGAAAC TTGGAACCTT TTGATTGACA AATTAATAAA CCTCTCTATG CCTCAGGCTC 120
CTCATCTGTA AA 132

SEQ ID NO:754

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00829

SEQUENCE DESCRIPTION:

GATCTAGGCT TGAGCTTGGT TGGGATTGCT NTTTTCTTCT TCTTCTTTAT AAACGATTCT 60
NTGTAACNT TTGTATTGAC AGTTCAAAC TTACAGTAAA ATTGCAACAC GAGTAAA 117

SEQ ID NO:755
LENGTH:117
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00830
SEQUENCE DESCRIPTION:
GATCAGTACA TAGCATTTGG CTCNTGAACN NAATTNTAAA CTTTCAGGTA TTTTGTACA 60
AATAAGGGAC TGATGTTCTG TTTCTTGTA TTAGAAATAA ACATTAATAC AGTGAAA 117

SEQ ID NO:756
LENGTH:119
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00831
SEQUENCE DESCRIPTION:
GATCTATCAT TACTGCAAAA ACCTGCTCTG TTGTGCTGGC TGGNAGGCCC TGTGGCTGCT 60
GGCTGAGGGT TCTGCTGTCC TGTGGCACCC CATTAAAGTG CAGTTCCTC CGGGCCAAA 119

SEQ ID NO:757
LENGTH:167
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00832
SEQUENCE DESCRIPTION:
GATCTGAAAT TAAATACTCA ACAGACTCCT CCTTTTTTAG CTGTATTTT CAGGTACTGT 60
GTGGTGACCG CCCCACTGGT GTCTATTACA GGCCACTTG GTAGTTGTGT ATCTGNTCAT 120
GTATGTGATT TGACAAACCA GTTTTTTAAA ATAAATGGCT TTTTAAA 167

SEQ ID NO:758
LENGTH:379
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00833
SEQUENCE DESCRIPTION:
GATCCAATA GAAATGAATG GAAGATGATG GGAAATATGA CTTACCAAG GAGCAATGCT 60
GGGATTGCAA CTGTAGGGAA CACCATTTAT GCAGTGGGAG GATTGATGG CAATGAATTT 120
CTGAATACGG TGGAAGTCTA TAACCTTGAG TCAAATGAAT GGAGCCCCTA TACAAAGATT 180
TTCCAGTTTT ANCAAATTTA AGACCTCTC AAAC TANCAG GCTTAGTGAT GTAATTATGG 240
TTAGCAGAGG TACACTTGTG AATAAAGNGG GTGGGTGGGT ATAGATGTTG CTANCAGCAC 300
CACAANGCTT TTCCATATTN GCNTCCTNTT AACCATGCNT GTCCATAAAC CCNGGGGANGN 360
NNANTTGNNG GGTNAANN 379

SEQ ID NO:759
LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00834

SEQUENCE DESCRIPTION:

GATCTACTAC TNGGCCTTCA GTGCGAAGAG CCACATCCAG GCCTGAGGGC GGCACCCCAG 60
CCCTGCCCTT GCTTCCTTCA ATAAACATCA CAGGACCTGG GACTGCACAG GNCCTGGGAA 120
A 121

SEQ ID NO:760

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00835

SEQUENCE DESCRIPTION:

GATCGAAGCA ATTGANGTAT CATGGATTGG ATTGTTACTG ATTCAGTAA AGTATGTTTT 60
GCCAATTAGA TACATATATA CAAGATAAAG GAATAGGATG GTAATATATT TGTNTGAAAT 120
TAAATTACTG TTTTNATTAA AAAATACTGC TTCATTGGGC TGATTTTGTA AAATGTAATG 180
AGTAAATGA ATTACTGTAT TTNCCCTTTT ATGTCCACAG AATGAGAGTC ATATGTNGTN 240
ATATNCTAAA TNTNCATTAA ATATTCATGT CACCTTGAGT TGTCATGATA AGTATGTTTT 300
AAA 303

SEQ ID NO:761

LENGTH:373

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00836

SEQUENCE DESCRIPTION:

GATCTACTAT GTNATGTCAG GGCCTGCGTG GCAACTCATG CAGCAATTCC AGAACCCTGA 60
CTTCCACACNC GAAGTAGAGG AACAGGATGC CAGCACCCTG CCTGTGTCTT GTGCCTGGAA 120
GAGTGGGATG AAACGCCACA GAGCAGCCTG TGCTTCGGCT AGTATTAATG TGTAGATAGC 180
ACTCTGGTAG CTGTAACTG CAAGTTTAGC TTGAATTAAG GGATTTGGGG GGACCATGTA 240
ACTTAATTAC TGCTAGNNNN GGAATGTCTT TGTAAGAGTA GGGTCGCCAT GATGCAGCCA 300
TATGGAAGNC TAGGGTATGG GTCACACTTT ATCTGTGTTC CTATGGAAAC TNATTTNGNA 360
TATTTNGNTT TGN 373

SEQ ID NO:762

LENGTH:406

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00837

SEQUENCE DESCRIPTION:

GATCTAGGGA GATGTGGAAG AAACGTGAC TACTATAGAA ATTGATGAAG AAACATATGA 60
AGAGATATAT AAATCAACGN AACGGAATAT TCCAATGCTC TTTGTCCGGG GAGATGGCGT 120
TGTCTGGTT GCCCTCCAC TGAGAGTTGG CTGAAACAAA GAATTTGTCC TGTATGGAAA 180
NCGNNNNNNN GGTGTACAGT GGCTCTCTA AAAGTACAAA ACATTCATAA GAGAAACCCG 240

CATACATTTT GATATTAAGA AATAATTCCG GGGATTCTTC CACTCCTGAA ATGAGTTGAT 300
TTGCAGATAA CTCACAACTT CTTAAGCTAA ATGGTATTTT CATTTTCTC AAGCTCTCCN 360
ATAANTATGG CCACCNNGG NNANNGNGTG GGGAAAAAA NAATTN 406

SEQ ID NO:763

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00839

SEQUENCE DESCRIPTION:

GATCCCCACG CCACAGCCCT TTTGTCTCTG CAACTGCCT TCTTCGGAAA GAAGAAGGTG 60
GGAGGNTGTN AATTGTTAGT TTCTGAGTTT TACCAAATAA AGTAGAATAT AAGACGNAAA 120

SEQ ID NO:764

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00840

SEQUENCE DESCRIPTION:

GATCTTGATG GTGTTTCTTT CCCCAAAAAT TGACTTAGAT ATTAAAATTT GGTGCTTATA 60
AGAGAGAGTT AAAAAAAAT AGGATTGCTT CAATTAATAA TACAAAAGAG NCAAA 115

SEQ ID NO:765

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00841

SEQUENCE DESCRIPTION:

GATCCAGTGA CAGCAGGTGT CATGGGTCAA GCATAAATCA TATATAGCAT TTTCAGGCAT 60
GTTCTGGTA GTTCTTTTGA GTCTGACATT CTAATAAAAT AATTTGTAGG AAA 113

SEQ ID NO:766

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00842

SEQUENCE DESCRIPTION:

GATCTTTGTG AGGATTAGGA ATTAGGTAA AAGAAATTAA GAACCATCTT CAAGCAAAAN 60
TTAACTTTA TTTCTNCTTA ANCAATAAAT ACACCTGANT TAGTTTCCA AA 112

SEQ ID NO:767

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00843

SEQUENCE DESCRIPTION:

GATCAAAGAC CCAAAGGAAT GCAACANTTT ATCTNTTATC TACCTATNAC CTGCGAGCTG 60
 CCCACCACCC CCANGTTGTN GCGCCTTCC AGACAGAACC AGTGATACATC TN 112

SEQ ID NO:768

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00844

SEQUENCE DESCRIPTION:

GATCCAAAAC TTAAATACAT CTATGAATTT CCTGGGGCTA TTGTGAGTAC TGTGTATGTA 60
 TTTAGCAAAT ATTTAAGACC TAGTAAGTGC TCAATAAATT GTAGCTGTTA TTGCTGTTGT 120
 NGTTTGTA 130

SEQ ID NO:769

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00845

SEQUENCE DESCRIPTION:

GATCGTGCCA CTGCTCTCCA GCCTGCATGA CGGGAGTNAG ACACCATCTC AAAAAATACA 60
 TATAATAATA TAAATAAAAA TATCTTTTN GAAAATAATT TAATATNNCN N 111

SEQ ID NO:770

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00846

SEQUENCE DESCRIPTION:

GATCNAGTAN TGNAGGGGCT GTTAGGAGCT TCCTGCAAAT CCCTGAGAGG GCAGAAGATA 60
 GCTTCTGTTA ATTCATTATT CTTCCAATAA ATGTTGATTG AGTACCTAAA 110

SEQ ID NO:771

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00847

SEQUENCE DESCRIPTION:

GATCACCGNC CAGTAATGGG CTCAGAGCAG GTCTTCATCA TGCCTTGTC TTTTAACT 60
 GAGAAAGGAG ATTTTTTGAA AAGAGTACAA TAAAAGGAC ATTGTCAA 109

SEQ ID NO:772

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00848

SEQUENCE DESCRIPTION:

GATCTTCTTC AATATGTGAA TTTGGGCTCA CAGAATCAAA GCCTATGCTT GGTTTAATGC 60
TTGCAATCTG AGCTCTTGAA CAAATAAAAT TAACTATTGT AGTGTGAAA 109

SEQ ID NO:773

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00849

SEQUENCE DESCRIPTION:

GATCAACAAG GTTTGCCACT GCTTGTTATTA CCAGGGACTG GTTACAACCA TTATTTCTNT 60
TCATTTGCTT GGCTTATCTC ATATTAAAGT GAGTTTGGAG TTCTCCAAA 109

SEQ ID NO:774

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00850

SEQUENCE DESCRIPTION:

GATCCAGTTC TAAACTTTGG GATATTTTTT TTCAATTTTG AAGAGAAAAT GGTGAAGCCA 60
TANGAAAAGT TACCCGAGGG AAAATAAATA CAGTGATATT CTTACGCAAA 110

SEQ ID NO:775

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00851

SEQUENCE DESCRIPTION:

GATCTGTGTG CTCTTATCAC CAATCAGTTC AGACCTGGTT GATTTTGTAC TTTGGAAGTG 60
TACCTTGAT GGTTTTGTTC ATTTAAAGAG AAACCTGAAG TACTCAAA 108

SEQ ID NO:776

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00852

SEQUENCE DESCRIPTION:

GATCACCATC TTAAATTTA CTTCAAAATA AAAGCATGTA AGTNACTGTT TTTCAAGAAG 60
AAATGTGTTT CATAAAAGGA TATTATATC TCTNTNGCTT TGACTIONN 108

SEQ ID NO:777

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00853

SEQUENCE DESCRIPTION:

GATCCCCCTC GGAAGAGGGA CTCCAATGGG CATGTCCCCT CCGGAAATNC GGCCTCCTCC 60
CCCTGGAATG CNAGGNCCCC CTCCCCCGGN AATNCGCCCA CCAAGN 106

SEQ ID NO:778

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00854

SEQUENCE DESCRIPTION:

GATCCCATCA TGAATTCATT GGAATTTGTG TTGCATGTAA GGCAATCTTT TCCNTGTTGT 60
AAATCTTCCG TTTTAAATG TACATATATT TTGAAAAATA TGAATAACA TGAAATTTTA 120
AAAGCTGAAA 130

SEQ ID NO:779

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00855

SEQUENCE DESCRIPTION:

GATCATGGTG GGTGAGCTGT ACTGATTGTN ATCCTGACTT TGGCATTGGC AGCTCTTATA 60
TNCCGACGAA TATATCTGGC AAACNNATAC ATATNTAACT TTAN 104

SEQ ID NO:780

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00856

SEQUENCE DESCRIPTION:

GATCTTTTCA CAGTATCCAT TTATTATGTA ATNCTTNTNA GAAAAGAATC TTATAGTACA 60
TNTTANTATA TGCAACCAAT TAAATGTAT AAATTAGTGT AAGCAAA 107

SEQ ID NO:781

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00857

SEQUENCE DESCRIPTION:

GATCAAAATG AAAGAAAATC ACAGAAATTA TCCTATGTGT ACTCCTCATC CCTCCTGCTG 60
TATATNTTCT NATTTTTTGC GTAATAAATN ATGTTAATTA CCAAATAAA 109

SEQ ID NO:782

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00858

SEQUENCE DESCRIPTION:

GATCTCCAAT GTTTTGGGGA TGCTTTGAGT CTCAAAAAA ATTGATAATC AGAAAAGTAA 60
TTTTTGTGTTG TTTGTTTAAT GTATCCCTGT TCTGTTTTTA ATTAAACTCC AAGTCTCATT 120
TTAAA 125

SEQ ID NO:783

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00859

SEQUENCE DESCRIPTION:

GATCGAGGTG ACAAATANTC AGTCCNTANG TCCCCACAAT GACCTCACCA NNATGGCTTT 60
GGGGAGCTCT TCACCCTAAA GATTTCGGTCT GGTTTGCTAA TGN 103

SEQ ID NO:784

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00860

SEQUENCE DESCRIPTION:

GATCTGGAGG CAAGATGCCA GGCCCCACAG GTGTTCTCAG GGCAGTTCTT GGTGTCTGCT 60
TCTCAGATAC CAAGGACTGG AATTAAAACC TTTCTGGGA AA 102

SEQ ID NO:785

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00861

SEQUENCE DESCRIPTION:

GATCACAGCC GAAGAGTGAA AGGTGCTGCA ATGAATGTTA GCTGTGGCCA CTGTGGATT 60
TTCGCAAGAA CATTAATAAA CTAAAACTT CATGTGAAA 99

SEQ ID NO:786

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00862

SEQUENCE DESCRIPTION:

GATCAAGTTA TTTTNAATTT GGTTTTCACA TTGGAAACAA GTCAGTCATT CAGATATGAT 60
TCAAATGTCT ATAAACCGAA CTGATGTAAG TAAA 94

SEQ ID NO:787

LENGTH:102

TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00863
SEQUENCE DESCRIPTION:
GATCTCTTCT TCTCCCTGTG GCCCCTGCGC TGTTGCCCCG TCCCCGTCAC CCCGCCCGNN 60
ACTGAAATNT ATAATCTGAC TTCCTGTACA GAAACCTGCA AA 102

SEQ ID NO:788
LENGTH:93
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00864
SEQUENCE DESCRIPTION:
GATCTTGTTA GCAATGCTGT TTTNCTGTT AGTCGGGTGA GAGTTGGCTC TACGCGAGGT 60
TTGTTAATAA AAGTTTGTTA AAAGTTTAAT AAA 93

SEQ ID NO:789
LENGTH:100
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00865
SEQUENCE DESCRIPTION:
GATCTTCAAG TGAACATCTC TTGCCATCAC CTAGCTGCCT GCACCTGCCC TTCAGGGAGA 60
TGGGGGTCAT TAAAGGAAAC TGAACATTGA ACCCTTTAAA 100

SEQ ID NO:790
LENGTH:92
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00866
SEQUENCE DESCRIPTION:
GATCAGAATT TAAAATGTGT GATTCTTTTT CTTTCTGTAA GTATGTATTG CTATGATAAA 60
TAAAAAATGG CAGGACCATT NTTTTATNA AA 92

SEQ ID NO:791
LENGTH:93
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00867
SEQUENCE DESCRIPTION:
GATCTCCAAC CAGGCCAGAG AAGATTCTCA CAGAAGGTTT TGAAGTCTAA GAAATAAATT 60
GGTTTGGTAA TAAATGGCTT CTGGTCAGAT AAA 93

SEQ ID NO:792
LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00868

SEQUENCE DESCRIPTION:

GATCTTGAT CTTGTATAA CGGATGTNAT TTGTACGAAG GGCAGTTCGT AAACAGCACT 60
TGTNCTTTTA ATAAAAGAAT GTTTTGCAA AAAAAAAAAA AAANCCCNAG GAAA 114

SEQ ID NO:793

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00869

SEQUENCE DESCRIPTION:

GATCTGTTTT GTACTTTTAA TACTGTTGGA TACTTATAAT CAAACTTTT ACTAGGGTAT 60
TGAATAAATC TAGTCTTACT AGAAAATAAA 90

SEQ ID NO:794

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00870

SEQUENCE DESCRIPTION:

GATCCATTTT ATAAAGTATG ATTTGCCCAA ACCTGTACCA TTTCCGTATT TCTCCTGTAG 60
AAGTAAGAAA TAAATTTCT TAAATAAA 88

SEQ ID NO:795

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00871

SEQUENCE DESCRIPTION:

GATCTGGCGC TTGGGGGTAA GTGGNATGAT TTGCTAATAT TGAGNATCTG TTGTATCAAA 60
CATAATAAAC TTTTTTTTGA GATGTGAAA 89

SEQ ID NO:796

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00872

SEQUENCE DESCRIPTION:

GATCAGGGTG TCTCCTTGTC CTTCTNAGAT GTGGAGAAGA GGCTGCTGGC TACCCTAAAA 60
NTTGAAATAA AAGATTTTGG CCTTTGAAA 89

SEQ ID NO:797

LENGTH:86

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00873

SEQUENCE DESCRIPTION:

GATCCATTGA GCCCAGCAGT CCAACCTGGG CAAAATAAGT GAGAGACCCT GTATCTGAAA 60

GTAATAATAA AAATAAAAAA TATAAA 86

SEQ ID NO:798

LENGTH:86

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00874

SEQUENCE DESCRIPTION:

GATCCTTTTT GATAATCTCA TTCCTAGAAA TTAAACCTTA ATGAAATCCC TAATAAACT 60

CAGTGCTGTG TTATTTGTGC CTCAAA 86

SEQ ID NO:799

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00875

SEQUENCE DESCRIPTION:

GATCGAACAT TTCACCTCTC ATATTAAGTC TGGCAATGAT GACTATATGT ATTCCTGCCT 60

AAATAAATCA TCTATTAATC ATTAATAA 87

SEQ ID NO:800

LENGTH:86

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00876

SEQUENCE DESCRIPTION:

GATCTCCGAG TCAGGACGGT CGGCCAGACC CACGGGGTAA CGGGTCTAAT CGTGTAGGAA 60

TAAAGCTGTA TTCCAGTGCT TCCAAA 86

SEQ ID NO:801

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00877

SEQUENCE DESCRIPTION:

GATCCCCGCG ATACTTCAAC GCCTTCTGAC TTCCAGGTGA TGA TGGGCC CCAATAAAT 60

CCCGTCTTTG GGTCTCTCTG CAAA 84

SEQ ID NO:802

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00878

SEQUENCE DESCRIPTION:

GATCCCTCAA AACCTCACTA ACTGGAAGGA TGATTTTGTG TCAGTTTGTA CTCCTAAATA 60
AAAAGTAAAC ATGACACCTC TAAA 84

SEQ ID NO:803

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00879

SEQUENCE DESCRIPTION:

GATCTGTGAA GAAATGAAAT AAAATGGTAT TTAGTAAGAA ATCTCTATTT TAAGAAAAAA 60
AGTAAACCT GTTATAAACA CATGCAAA 88

SEQ ID NO:804

LENGTH:82

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00880

SEQUENCE DESCRIPTION:

GATCGTGCCA TTGTGATATG AATATGCCTT ATATGCTGAT ATGAATATGC CTTAAAAATA 60
AGTGTTCCTT ACCCCTGCCA AA 82

SEQ ID NO:805

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00882

SEQUENCE DESCRIPTION:

GATCTTAAGT CACACATTTN AATTGTNTAG AGGTTGTTCA ACTGAAGGAA TAAATGTCTA 60
TNAANCTAAA ACAAATGGAA A 81

SEQ ID NO:806

LENGTH:78

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00883

SEQUENCE DESCRIPTION:

GATCAAGTTT GTACATAACA CTAGTGGCAT TTCTTATCAA AAGGATTGGA TAATAAAAAT 60
AAGTTTCTAC TGGGTAAA 78

SEQ ID NO:807

LENGTH:78

TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00884
SEQUENCE DESCRIPTION:
GATCCCCCA GCAAGGATAN CATTCAAAGG AGCTCACATT TATGGAATGG ATGAATCAAT 60
AAATTAATTC ACTTTAAA 78

SEQ ID NO:808
LENGTH:77
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00885
SEQUENCE DESCRIPTION:
GATCCCATTT CTGATGGATG TGTCACACCT TTTCTGTCAA AATAAAATGT CTTGGAGGTT 60
ATGACTCCTT GGTGAAA 77

SEQ ID NO:809
LENGTH:77
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00886
SEQUENCE DESCRIPTION:
GATCTGTGTT AATCTGAGTA ACTTATTGCC TAGCCTATAA ATAAATTCCA AAATATCCAA 60
TTCATTCTT CTTGAAA 77

SEQ ID NO:810
LENGTH:75
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00887
SEQUENCE DESCRIPTION:
GATCATCCTT CCTGGCAAAT AAATTCCCGT TTCTATCCAA AAGAGCAATA AAAAGTTTTC 60
AGTGAAATGT GCAAA 75

SEQ ID NO:811
LENGTH:76
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00889
SEQUENCE DESCRIPTION:
GATCTGAAAG CCTGAGTGTG TGTACGTGCG CGCGTGCGTG AAGGCCCTGC CACGATTAAA 60
GACTGANACC GGCAAA 76

SEQ ID NO:812
LENGTH:129

TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00890
SEQUENCE DESCRIPTION:
GATCTTTAAT ACAATATAGA AATTGTGTAA TAGTTATTAT AAATGTTAAT ACACAACTTT 60
CAGGTAATTT TAACTGATTA TTTCTTTTGC TCTTTTAACT TAAGTTATTA AAGTTTAAAA 120
GTTCGTAAA 129

SEQ ID NO:813
LENGTH:74
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00891
SEQUENCE DESCRIPTION:
GATCTGGTCT CGGTGGTCCT TCCCCGCAGG CAGGTGTCAG GACCGGCCTA ATAAACATGT 60
GTGGCCTCCT CAAA 74

SEQ ID NO:814
LENGTH:82
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00892
SEQUENCE DESCRIPTION:
GATCCAAATC CCATTACAGT TGTATAAAGA AATAAAATTT TGTACTNATA TTATTAAAAA 60
TCACATTTTT AATATTTGTA AA 82

SEQ ID NO:815
LENGTH:72
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00894
SEQUENCE DESCRIPTION:
GATCCCCAGA GACCCCATTT GCCTCTCAAC ACTCAGACCT TCAACTGTTT TTNAATAAAT 60
CTACTTTTAA AA 72

SEQ ID NO:816
LENGTH:72
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00895
SEQUENCE DESCRIPTION:
GATCCTACAC CCNGAGCCTC AGAGCACTGC TACTTTTTAA AATACTTCTT TCTCTTAAAA 60
GTCTTTACCA AA 72

SEQ ID NO:817

LENGTH:71
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00896
SEQUENCE DESCRIPTION:
GATCAGATGT TAAGACTGAC ATTTCCAAGG TTGGCTACTA TGTAATAA AAATTACACA 60
AATTGTGCAA A 71

SEQ ID NO:818
LENGTH:71
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00897
SEQUENCE DESCRIPTION:
GATCTGAAGT AATTGTGCTG TATTTATGTT TATTCACCAG TCTTTGATTA AATAAAAAGG 60
AAAACCAGAA A 71

SEQ ID NO:819
LENGTH:84
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00898
SEQUENCE DESCRIPTION:
GATCTAGCTC TCTGATTCCA TACATTCCAG ACTTCTCAGT GGATTGTAA TAAACTATAA 60
ATAAAAATAG CTCTCATTTA TAAA 84

SEQ ID NO:820
LENGTH:73
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00900
SEQUENCE DESCRIPTION:
GATCATGTCT TTTCCATGTG TACCTGTAAT ATTTTCCAT CATATCTCAA AGTAAAGTCA 60
TTAACATCAG AAA 73

SEQ ID NO:821
LENGTH:69
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00903
SEQUENCE DESCRIPTION:
GATCTGATTA TTTACTTTGT TTATTGTCTA TATGCCTTTT AAAAAAATAA ACTTGTTATG 60
CAAAATAAA 69

SEQ ID NO:822

LENGTH:69
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00904
SEQUENCE DESCRIPTION:
GATCCAGTTG TAGCTGCCAT CAGATGCCGG AGACTCGCCC NTCAATAAAA AAATCTCTTC 60
TAGCTGAAA 69

SEQ ID NO:823
LENGTH:72
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00905
SEQUENCE DESCRIPTION:
GATCACTGTA AATGGTAATC AGTTGGAATT CTCCTAAATG TCTTCAGAC ACTAGTAAAA 60
AACGACCTGA AA 72

SEQ ID NO:824
LENGTH:68
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00906
SEQUENCE DESCRIPTION:
GATCTTTCTA CCTGCCTTTC CATGTCATGA GAGGAAGAAA CAAGAATGAC AAGTGTATGA 60
CTNCCAAA 68

SEQ ID NO:825
LENGTH:67
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00908
SEQUENCE DESCRIPTION:
GATCACGTAC CTGTGCAGAA ACCGCCTCTG TGGCTGCATT TGAAATAAAA CCGACCCAG 60
CAGCAAA 67

SEQ ID NO:826
LENGTH:342
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00910
SEQUENCE DESCRIPTION:
GATCATATTT TATGAACAGA AAGACTCAGG ACATATTAAA AAATAAACTG AACTAAAACA 60
ACTTTTGCCC CTGACTGATA GCATTTTCTG ATGTGTCTTT TGAAGGGCTA TGATACCATT 120
TATTAAATAG TGTTTTATTT TAAAAACAAA ATAATTCCAA GAAGTTTTTA TAGTTATTCA 180
GGGCACTATA TTACAAATAT TACTNNGTTA TTACACAAAA AGTGATAAGA GTAACATTTG 240

CTATACTGAT GNTTGTNTAC TCAAAAACCT CNGNTNAACN GTATGTAATC TNAGTTCACT 300
GCACTTAAGT TCACCNAACA TNNATNAATG TCAATGNAGA AA 342

SEQ ID NO:827

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00911

SEQUENCE DESCRIPTION:

GATCTAAGAA GTTGTGAATG TTGTTAATCA TTTAGCCGTT GCAATAAATG TAGAGGAAAT 60
GCAGTGTGCA AA 72

SEQ ID NO:828

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00912

SEQUENCE DESCRIPTION:

GATCACCTGA GGCCATGAGT TTNAGACCAG TCCTGGTAAC ATAGCAAGAC CTCCATCTCT 60
ACAAA 65

SEQ ID NO:829

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00913

SEQUENCE DESCRIPTION:

GATCCTAGAC AGCGCCTTAT CTATGATTGA GTGTCCGTGT AAATAAATTC CTACTTAGAC 60
TTAAA 65

SEQ ID NO:830

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00914

SEQUENCE DESCRIPTION:

GATCTGGGAA CTTTTNCTG TACAAATCTG TTAAAAAAA AAAAAAGGNA CCNCATTGAT 60
TTAAA 65

SEQ ID NO:831

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00915

SEQUENCE DESCRIPTION:

00500

GATCCAAATT AAAACCTGGT AGAATCTAAT ACATTGACTG CAATTAAAAT GTTGCCTGG 60
AAA 63

SEQ ID NO:832

LENGTH:68

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00917

SEQUENCE DESCRIPTION:

GATCCAGTTC TAAGTGTCAT CTTTATNAT NAAGACAATA AAATCTTGAG TTTATGCTTC 60
ACTTNAAG 68

SEQ ID NO:833

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00918

SEQUENCE DESCRIPTION:

GATCCACGGT TGTNACCATG TATTACCACA AATTTAACAA TAAAAAATTG TTTTAAGAGT 60
AAA 63

SEQ ID NO:834

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00919

SEQUENCE DESCRIPTION:

GATCTACTGT CATTGATG CAATTCCTG TTACCTTGAA AAAATAAAAA TGTTAACAGG 60
AATGCAGTGT GCTCATTCTC CCNAAATAGT AAANCCCACT GTATACAAA 109

SEQ ID NO:835

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00920

SEQUENCE DESCRIPTION:

GATCCAATTA CACACATTCTG TTCACAACCTC AACACAAATT CCTATTAAAT ATTAAAAGTA 60
AA 62

SEQ ID NO:836

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00922

SEQUENCE DESCRIPTION:

00501

GATCTTAAAC ATAGGAAAAC CATACGTGTT CATGATAATA AAATGCTTTC TATGAAATAA 60
A 61

SEQ ID NO:837
LENGTH:56
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00924
SEQUENCE DESCRIPTION:
GATCATACCA CTGCTCTCCA GCCTGGCTAT CAGAGTGAGA CTCTGTCTCA CAGAAA 56

SEQ ID NO:838
LENGTH:56
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00925
SEQUENCE DESCRIPTION:
GATCAGACAC TTAACCCTTA TAANTTAAAG TCAATAAAGC ACCTTTTAA AGGAAA 56

SEQ ID NO:839
LENGTH:57
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00926
SEQUENCE DESCRIPTION:
GATCAAAGTG AAACAATGTT TGGATGCAAC GCAGAATAAA AGAATATAAG AAATAAA 57

SEQ ID NO:840
LENGTH:52
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00929
SEQUENCE DESCRIPTION:
GATCTAATTA AAAGACCTTC TGCACAGCAA AAGAAACTAA CAACAGAGTA AA 52

SEQ ID NO:841
LENGTH:52
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00930
SEQUENCE DESCRIPTION:
GATCCCGGCA GAAGCTATGA AAGGGAATAA AGAGAAAAGA AGTACCCAGA AA 52

SEQ ID NO:842
LENGTH:52

TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00931
SEQUENCE DESCRIPTION:
GATCTTTTAG TTCAACTCA GCTTTTACAA TAAAANGGAT TTGTATTGCA AA 52

SEQ ID NO:843
LENGTH:58
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00932
SEQUENCE DESCRIPTION:
GATCTCTTTT CAGAAGTGTC TATAGAACAA TAAAAATCTT TNACTTCTGA CCTTGAAA 58

SEQ ID NO:844
LENGTH:53
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00934
SEQUENCE DESCRIPTION:
GATCCTAAAT CATGACTTAC CTGCTAATAA AAATCATTG GAAAAGTGAG AAA 53

SEQ ID NO:845
LENGTH:52
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00935
SEQUENCE DESCRIPTION:
GATCAAGCTG TAAAAAACN AAAAAATTAA TAAAAATTC GAGAAATANA AA 52

SEQ ID NO:846
LENGTH:51
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00936
SEQUENCE DESCRIPTION:
GATCAGCATT GTGACTTGGA GATAATAAAA TTTAGACTAT AAATTGGAA A 51

SEQ ID NO:847
LENGTH:62
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS00937
SEQUENCE DESCRIPTION:
GATCTGAGGT AAATTTGAA GTAAAATAAA AGCTGTGTTT GAGCATCATT TGTATTTGCA 60

AA

62

SEQ ID NO:848

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00938

SEQUENCE DESCRIPTION:

GATCCTCCCT CCCCTAATTA AAGTCTCTTT TTGCCCCTTT GGGCTGNCAT GAGGTCAAA 59

SEQ ID NO:849

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00955

SEQUENCE DESCRIPTION:

GATCAGAATT TTAAATNAAA GGGTTTTTCT TTAAATNATT TGTATTACTT TATTAAACT 60
CTGATATTAA A 71

SEQ ID NO:850

LENGTH:661

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00972

SEQUENCE DESCRIPTION:

GATCCGGTTC TGGGACAGCA GGGGGCCCCA CTGCACCCAG GTCATCCCTG TGCAGGGCCG 60
GGTCACCTCC CTGAGCCTCA GCCACGACCA ACTGCACCTG CTCAGCTGTT CCCGAGACAA 120
CACACTCAAG GTCATCGACC TGCCTGTCAG CAACATCCGC CAGGTGTTCA GGGCCGATGG 180
CTTCAAGTGT GGTCTGACT GGACCAAAGC TGTGTTTCTG CCGGACAGAA GCTATGCACT 240
GGCAGGCTCC TGTNATGGGG CCCTTTACAT CTGGGATGTG GACACCGGGA AACTGGAGAG 300
CAGACTACAG GGACCCCAT TGCCTGCCGT CAACGCCGTG GCCTGGTGCT ACTCCGGGAG 360
CCACATGGTG AGCGTGGACC AGGGCAAGGA AGGTTGTGCT TTTGGCAGTA GGGCCACGAC 420
CTGCCTGCTT GGGNTGGAGN TTTTNCCCG AAGCTNAAAG TTTCTTNGG GGCAATGAAG 480
GGGTTTGGGG TTTGGGATTN GAGNTTNGNC TTGGGATTTA ATTGGGNAAG AAGGCTTGGA 540
AAGACCTTGN CTTTTTTNTT TAAAANTNAA GTATTGGTTT GGGGGNTTAA GGTAATTTT 600
TTTTNGAATT TTAANTTNAT NTCTAAATTT TTTCCAAAT TTTGAAAAAT TTTTTTTNAA 660
A 661

SEQ ID NO:851

LENGTH:641

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00973

SEQUENCE DESCRIPTION:

GATCTTGAT GTCTATTATA GGAGAAGTAT GTCCTGCCAA TGTACAAGAA GGCAGCATTG 60

00504

TAGGATTAAC ATTCTTGTCT ACTGTATATT ATCTTGAAG GCTCTTGTTA ATATGTTACA 120
 CTTAATATTC TCCACAGTTA CCTTTAGAGA GAATTTATGA GAAGTTAGTT TCTGATGCAG 180
 AGGTTTTTAG GCTGTGATTT CATCAAAAGT CCTAATAGCA TTCTACCTCA AAGGGACACT 240
 TAGNATGCCT AAAATTTATT CACTTAGTTT TCCTTTTTTA TTTGAAAAAA TACATGACAT 300
 GTAATCTTTT TTTCTTGAAT TCTTTCTCAG ATTTTAAAGT ACTATATTAA AGAAAAAAT 360
 TAATGTCTAA AGGCCTAGCA TTCCTTGCAG GACCCCTATA CTAACCATGG TAATGGGGGA 420
 GAGGGGTGGG GCAGNTNNGT AGGGGNACCA GGTTCCAGGC CTCAAGCTTC CCAAAGCCAT 480
 TTTTNTAAA TGGGAAATCC NTNAANTTNT GGAACCCGCT TTGNTATNGG NGCCCTTTT 540
 TTTAAATTC CNGGCCTTTT TTTNNTTGGT AATGGGGGTT NCTGTTTGNG GTTTAACCT 600
 NANCCTGGNC CGGGGGGGT TAAAGGAATG CTGNCTGCAA A 641

SEQ ID NO:852

LENGTH:627

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00974

SEQUENCE DESCRIPTION:

GATCTGCTNC AGTGTCTGA GCCCTAGGAT TCATCTNTCT TTTCACCGTA GNGCGCNGA 60
 CTGGCATTGT ATTAGCAAAAC TCATCACTAG ACATCGTACT ACACGACACG TACTACGTTG 120
 TAGNTCACTT CCACTATGTC CTATCAATAG GAGCTGTATT TGCCATCATA GGAGGCAACA 180
 TTCACTGATT TCCCCTATTC TCAGGCTACA CCCTAGACCA AACCTACGNC AAAATCCATT 240
 TCACTATCAT ATTCATCGGC GTAAATCTAA CTTTNTTCCC ACAACACTTT CTCGGCCTAT 300
 CCGGAATGCC CCGACGTTAC TCGGACTACC CCGATGCATA CACCACATGA AACATCCTAT 360
 CATCTGTAGG CTCATTCAAT TCTCTAACAG CAGTAATATT ANATAATTTT CATGATTTGA 420
 GAAGCCTTCG GTTTCGAAGC GAAAAGTCCT AAATAGGTAG GANGAACCTT TCCATTAAAC 480
 CTGGAGTGAC TATATGGNTT GCCCNTACCC TTACCANACA TTCNGAGGAN CCCGTATACA 540
 TAAAATTNTN GNNAAAAAAN GGANGNTTC GNACCCCCCA AAGGTTGGTT TNANGNCAAC 600
 CCCCNTGGGC TCNATGGTTT TTTTAAA 627

SEQ ID NO:853

LENGTH:617

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00976

SEQUENCE DESCRIPTION:

GATCAGANTG CCCCTCCACT CATGAGACTC TTCATTTTGT CCACTTTGAC AGGAAAAGTG 60
 GGAATGTATG CAGAGCTCTC AAAAGAAACA AAAAAGGCCA AAACGGTGCC TTCAGCCACA 120
 TCCTCTGAAT TGGCCCTGAC TTGGACTAAA NCCNCTAATG CAAAATCCCT TGACAAAAGC 180
 GCATAGGTTA TTTCAAACCA GCATTGTTTT TTATGTAACC TGTTTTACCG CATCTTCTCA 240
 GCAGCTTCTG ACCACTGCTC AATTTTTTCC TTTACAGCCA TTGTTCTGGT GGACAAATAA 300
 CCTAGGTACT CCAAATCCTG GCAGGAAAAA TATACAGCAT TATGAAACAG CACTCAGTAA 360
 TCCTAAAATG GATTTTCCAA AGCTGGTTAC ACATGNCCTG CAAAGTCTTA TTAAATTTA 420
 AAAGGCCTTT CTCATTACC AGGGGTTTAG GTCAACGNNG GCAAACCCCT GGGGGAATTT 480
 AAATTGGGAA GGTANTTNC CTTNGTAAA TTCATAGGGN CCAAANGGCN GGGNAGTTAA 540
 TTTTCCATN GGGTTGGTGG CNCCCGGGNT TCATTGGTNT TNGGCCCCAN GGAATTTAAT 600

TTTTTTAAAN CCTTAAA

617

SEQ ID NO:854

LENGTH:602

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00977

SEQUENCE DESCRIPTION:

GATCCCGTGC GCGCGCTGC CCGAGGGGAG CAAGGACAGC TTTGCAGTTC TCCTGGAGTT 60
CGCTGAGGAG CAGCTGCGAG CCGACCATGT CTTCAATTGC TTCCACAAGA ACCGCGAGGA 120
CAGAGCCGCC TTGCTCCGAA CCTTCAGCTT TTTGGGCTTT GAGATTGTNA GACCGGGGCA 180
TCCCCTTGTC CCAAGAGAC CCGACGCTTG CTTTCATGGC TACACGTTTC AGAGAGAGTC 240
TTCGGGAGAG GAGGAGGAGT AGGGCCGCCT CGGGGCTGGG CATCCGGCCC CTGGGGCCAC 300
CCCTTTTNAAG CCGGGTGGGT AGGAACCGTA GACTCGCTCA TCTCGCCTGG NTTTGTCCGC 360
ATGTTGTAAT CGTGCAAATA AACGNTCACT TCCGAATTAA GCGGTNTATT TTTGAANGT 420
TTAATAATTG TGTTTTNTGA ATACTGAAGT ATTTGGCTTT AAATTCTTAA NTTAAAAATT 480
TAATNTTTTA CTTTTTTAAT TGCTGGGTTT AAGATNGTTN AAGATTATCC TTGNAACTTT 540
NNGGGGGANG TTNTTATTTT NGAGTCTTTT NGGAANAGNC TTNAGGCTTT TNNACTTNGA 600
AN 602

SEQ ID NO:855

LENGTH:595

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00978

SEQUENCE DESCRIPTION:

GATCCCAGGG CTCCCTGCCA TTTTAGTGTC TTGGTGTAGT GTAACCATTT AGTGGTTGGT 60
GGCAACAATT TTATGTACAG GTGTATATAC CTCTATATTA TATATCGACA TACATATATA 120
TTTTNGGGGG GGGGCGGACA GGAGATGGGT GCAACTCCCT CCCATCCTAC TCTCACAGAA 180
GGGCCTGGAT GCAAGGTTAC CCTTGAGCTG TGTGCCACAG TCTGGTGCCC AGTCTGGCAT 240
GCAGTACCC AGGCCACCC ATCACGTGTG ATTGACATGT AGGTACCCTG CCACGGCCTA 300
TGCCACCTG CCCTGCTTCC TGGCTCCTTA TCAGTGCCAT GAGGGCAGAG GTGCTACCTG 360
GCCTTCCTGC CAGGAGCTTT NCACCCACTN ACATTCCGTC CCCGCGGCTT AACTGNAGCA 420
AGCGTGGNCC TAGGACAGNA GGAGCTTCGG GCCCNGTTN ACCTTGCGGT GGGGCTNANG 480
GGTTGGCATT TCTTGCTTG GGGCACTGGG TTNAAATTTT GGGNTGATNA TTGGGGNGAG 540
GGGTGGGGTA AAAAAACCAN TTTTGGNNAA GNTTGGGANG NTTTTGNCTT TAAA 595

SEQ ID NO:856

LENGTH:581

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00979

SEQUENCE DESCRIPTION:

GATCTGGAAT TGCAGCCCAC ATAAACATAA AGGAGGATGT CCCTGGTCTG TTCCATCCCC 60
ACGGATGGTG TTGCTGCTGG GCAACAGTGT TGGCTTCTTT NAAGTACCCC CTTTCCTCCT 120

00506

CACCCACCTC CAAACTGACT AGCACTCAGA GGGACTTATG ATAAAGGTTC AGCTCCAGGG 180
 GTAGTACCTG AGTGTGTGCC ATGCCCTTC AGACCAGCTG CTTCCATCAG AATTCCAGGG 240
 TCACAGCCCC AACAGAAGCA GCAGTGCCTC TGTAGGAGGG GTGCTGGGCT CTGGNCTTCT 300
 NATGCAGAGA GGTCCGGGAC AGGGTCAGTA TCGTGGGCAT GTNTATAGCT TCCCAAGTTC 360
 TTTTACAAGT CCCNTGCTGG GACTCCCTGA NTTTACTTTT GGTNGGNTTC CTAGGTNCTA 420
 ATTGGTTTTA CAAACTTACA NTTTTNTAGG AATTTGANTT ANGATTANCT TGNTTTAATT 480
 TAATTGTAGA NTTTNGGGGC CTTTTTGGGN CTCAAATTTT NCCATTACAA GGNNTTATTN 540
 GGGAAANAAA GNGGTTTNA TNAAAATCCT TGGCCAGGAA A 581

SEQ ID NO:857

LENGTH:569

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00980

SEQUENCE DESCRIPTION:

GATCTAAATC AGACAGGAGT TGGTCTACAT AGTAGTAATC CATTGTTGGA ATGGAACCCT 60
 TGCTATAGTA GTGACAAAGT GAAAGGAAAT TTAGGAGGCA TAGGCCATTT CAGGCAGCAT 120
 AAGTAATCTC CTGTCCTTTG GCAGAAGCTC CTTTAGATTG GGATAGATTC CAAATAAAGA 180
 ATCTAGAAAT AGGAGAAGAT TTAATTATGA GGCCTTGAAC ACGGATTATC CCCAAACCCT 240
 TGTCATTTCC CCCAGTGAGC TCTGATTTCT AGACTGCTTT GAAAATGCTG TATTCATTTN 300
 GCTAACTTAG TATTTGGGGT ACCCTGCTCT TNTGGCTGTN CTTTTTTTGG AGCCCTTCTC 360
 AGTCAAGTCT GCCGGATGTC TTTTTTACC TACCCCTCAG TTTTCCTTAA AACGGGNACA 420
 CAANCTCTAG NGNGGTGTTA NGANTAATNG TTAGTNGGGT TANTGGGGTA NTTNNTGGGG 480
 TNTNGGTTTG GGGCTAGGCA TTGTGGTAGG TTTTNAANAA TTAGNGGGTT GGNCCCCNTT 540
 NGNTGGGGTG NTTTCANGGT NGAATNAAN 569

SEQ ID NO:858

LENGTH:566

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00981

SEQUENCE DESCRIPTION:

GATCCCACCC NGGCCTCTCC TGGAACCTCTG AACCTGCTGT GGAAGGAATT GGCCATGACC 60
 TTCACCTCTG GAGAGTAGGG TCTATGGCGA GGGAAAAGGG NNTTCACCAT GATAACCTAG 120
 TGCTCCATA GAGGGGTTTT GAAAAATTCC AGTCCGATTT CTTTGTGTGT CAGCTGACTT 180
 CCTTAGCTGA TTGTTCCAC TTGCACCTCT CCACCTTTGG CACTAGAACT CCTGAGACAC 240
 CACTTCTCAT GCTTCTCCCT CCCTACCAGC GGTCAAGGCT TTGGAGCCAC TCTTTTGTA 300
 CTCCAGATTA TTAAAGAGA AAAGTACAAG ACAGAAATCT TCTAGCACTT TGTAACACA 360
 GTTGATTAAC CCTCTTGGGN GTATTTTTTG GGCTTTATAT AAAANCANGG TTTTTTAATT 420
 NGTAAAGTNT AAGTGCCATT AGGAANATGC ACCAGGGCAT ATTTTGGTT NAAGGTGGTT 480
 TTTTCAATGG TTTTNCAGGN TTNCATTTTC AAAAAAANGG TTTTTTAAT GGAGGTTGTT 540
 NTTNAAANNT TCNTGANTGG TGAAAA 566

SEQ ID NO:859

LENGTH:556

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00982

SEQUENCE DESCRIPTION:

GATCTACAAT TACTAATTAA AGCTGTGAAT CTNTTCCCTG CTGGAACAAA TTCAAGATGG 60
GAAGTTATTG CTAATTACAT GAACATACAT TCTTCCTCTG GAGTCAAAAG AACTGCCAAA 120
GATGTTATTG GCAAAGCAAA GAGTCTCCAA AAACCTTGACC CTCATCAAAA AGATGACATA 180
AATAAAAAGG CATTTGATAA GTTCAAAAAA GAACATGGNG TGGTACCTCA AGCAGACAAC 240
GCAACGCCTT CAGAACGATT TGANGGTCCA TATACAGACT TCACCCCTTN GACAACAGAA 300
GNACAGAAGC TTTTNGAACA AGCTTTGAAT ACATACCCAG TAAATACANC TGAAAGATGG 360
GNANAAATAG CAGTAGCGGT GCCTGGCAGG NCAAGGAGG GNCTGCATNN ANCCGGTTNC 420
AGGGGACTTT GTCGNGTGG GTAAAGCCAA AGGAAGCTTG TTCCAGGTCN ANGTGCTGGA 480
TGCAAGTTGG GGCNTGGNAT TNNCNATTTT TTGTTGGGGT GTTCCTTTTT TTANTAAACC 540
TGNANTTCTT TTAAA 556

SEQ ID NO:860

LENGTH:555

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00983

SEQUENCE DESCRIPTION:

GATCTGGATT ATTTGTCTAA GTGAGAGATT GCGAATATCA AAATATCTGT CTCACTTCTT 60
CTGTGAATNA CACAGAGTAG AAATAAATTC ACTTTAAAAA TATGACTGAA TTTTGAAAAAT 120
CAAGACTGAA TCTCACATAG CTGCAGACAG GAACTAAGCC AGCCTCTTTG TATGTGGTAA 180
CAAGTACAGT ATAAGANTGA AAGATTTACC ATCCTTGAAA GCTCTAATGA AAATCAAATC 240
CAGCAATATA TATTCAACTG TGTACAGGAT TTAAGAACTT ATTTTATGAA GGAGTAATAG 300
TGTGTAGATA TAGATTCTGA AGTCTTTAAA CGTGCCTTAA TAAATNAAGT TCNCTGGCAT 360
TGAGNTGANN ACCAGGTGAC CNTTGGGGNC AAAAACCNC ACAAGTGATT NGCACACCAG 420
TATACNTTCA CCANTATACT NTNTGCACAC ACANCNTTTG TTTNGGTTCA GGGTTTTGCA 480
AATNGGTCCN ATGTATTGGC ACTGGCGTCT TTGNATTGTG TAAGTGGNTA TTTNTGAGG 540
NTAGCGTGGT NNCNN 555

SEQ ID NO:861

LENGTH:554

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00984

SEQUENCE DESCRIPTION:

GATCCATGTC TCAGCCTCCA CCCC GCCACA CCTGTCTGTG CAGCCCACCG GCCTTACCTT 60
CTACCCTGCC GTGGATGTCC AGGCCTTTGC CGTCCTCCCC AACTCCTCCC TGGCTTCCCT 120
CTTCCTGATT GGCATGGTAA GCAGTTCCTG GGTGGACAG ATGAGGAGCC CCAGACAGTC 180
CCAACAGCAC TGTCTTTGGA GTCAGGAGAC CATGTGAATC CTGTCTGGAT TCAAACCTGG 240
ACTGTGTAC TCCGGAGCCT GAGGCTTGAG TCACTGTACT CAATGGTGCC GACTCCTGGA 300
GGTATTCAAT CACCCAGCCA TTCACTAGTG CGTTTGTTTA CTTATTCAAT CAATTATTCA 360
TTCAGTCAAT TTCTATTCA TTCANTTATT CATTCCATGT TGGCTTGAAA TATGTGTACT 420

GTNCCAATTN ATCCATTTAT ATCTTTAGTC ATTCAATTAT GCATTNGTGG TATTTGTTCA 480
TTNATTCANT TINTAATTTN ATTNAGTTAN TNNNTNGGTT GGTGNCTTGG NGTANNGTNA 540
TACATTTGNG GAAA 554

SEQ ID NO:862

LENGTH:549

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00985

SEQUENCE DESCRIPTION:

GATCCTATGG TTCAGGAGGC CAGAAATTTT CACCTCTAGG AGGTGGTGGT GGCATAGGTT 60
ATGAAGCTAA TCCTGGCGTT CCACCAGCAA CCATGAGTGG TTCCATGATG GGAAGTGACA 120
TGCGTACTGA GCGCTTTGGG CAGGGAGGTG CGGGNCTGTG GGTGGCAGGG TCCTAGAGGA 180
ATGGGNCTGG AACTCCANCA GGAATATGGT AGAGGGAGAT AAGAGTACGA AGNCCAAACA 240
AAAAACCCCG ATTTTAGATG TGATATTTAG GCTTTCATTC CAGTTTTGTT TTGTTTTTTT 300
GTTTAGATAC CAATCTTTTA AATCNTTGCA TTTAGNAAG AAGCTATCTT TTAATGGTTG 360
TAGCAGTTAT TGACCTAATA TTTGAAATGG CTGTTGGCAG TAAATTATGA ATCAGTTTTT 420
GACCAGGNGA TTTTTTNCN TNTATTCCTT ANTTTCCTGT TNCTGATATN CCCCCAAGTA 480
TGCAGTTNCT NNNCCTNAA TTCCANGGNN CCATTTTTTT TTCNGGGTTC AANAATNGAA 540
TNGNTTAAA 549

SEQ ID NO:863

LENGTH:543

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00986

SEQUENCE DESCRIPTION:

GATCAGCAGT CTTCTGCTGC CTTCTTAATG TTTCACCTAA GTTCCCATAG TTGCTCTCAA 60
AAAGTTTCTT GGCCCTCGTG GGCCAGTNTG GAGGGGCTGT ATCATCATTC ATNAGGAGCG 120
TCACTTGGTG GTTTAGGGGG AAATAATCTA TTCTNAAGAT TGAAGAGAGT GCAGGATTTG 180
GGGGGTGAC TCTACATCCT TCAGTATCAG GGCTTATCTC CTTGTNTTAC CTCCTAGGAG 240
ACCCTCCTGT TCTTAACTGT GGGCGATGAG AAAGGTGGTG GACTCTTCTT ACTGGCAGGG 300
CCACCTGCGT CTGTGGAGAC CCTGGGGCCC AGGTGGCTG AGGTCCTGGA AGGCAAAGGA 360
GCAGGGAAGA AAAGGCCGTT TTTCAGGGCA AGGCCACCAA GATGAGCCGG CGGATGGAGG 420
GCGCAGGCCG TTCTCCAGGN CTACATCAGC AACGNAGAGT NCTAAGNANT TANGGCTTTA 480
GGGCACTTAN CTNCTGGTTT CCACAGGAAT CTTTTNGTCA ATNAAATTAG TTTGCCTCAG 540
AAA 543

SEQ ID NO:864

LENGTH:538

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00987

SEQUENCE DESCRIPTION:

GATCATTTCT ATAAAAGAAA TGGTCATTTT ACTTAGATGC CAGTCTACTT TATAAAGACA 60

AATGGATTAT AGACTTAAAA ATAGTCATTT TTCTTATTCA TAAATCTGAC AGGCATAAAC 120
 CCAAATCAAA GATAATTTGG TGCCCATTAT GAATTTGAAG TTAAGTGATA GCTCACTTGT 180
 AAAGTGACTA CCTTAATGTG TATAGAGACC CCAGTCTACT ATTATTGGG AAAATTGTTT 240
 AGGTTATATG GGAAAAGTAG CTCTTAAAA ATCATATTGC CCAACAGAAA CCTTAGGCTG 300
 AATTTACAGG TATGATAATT TTTGTAATTA ATTTTCTTAG AATTGTGCAG GCTGGGATGG 360
 GGATAATGNC ATACTCTTTT AACTGTACC AGCAGCATTT ATTNCCCTNG GACCTTTTAA 420
 CCNTTTTAGG GGTTAGGGTN CTNGGGGAAC CAACCTTAAT TNGGNCATCC TCCATTNNC 480
 TTNTNTCCN NNNNCCNNT TTTTTTTTTG GNCCCNTTN GNCCCCTTA AACNACCN 538

SEQ ID NO:865

LENGTH:533

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00988

SEQUENCE DESCRIPTION:

GATCAAAACT ATANGTGGCT ATGGCGGATA TGATTATACT GGGTATAACT ATGGGAACTA 60
 TGGATATGGA CAGGGATATG CAGACTACAG TGGCCAACAG AGCACTTATG GCAAGGCATC 120
 TCGAGGGGGT GGCAATCACC AAAACAATTC CCAGCCTTTC CACATTGGCT TTCCCATGTA 180
 GTCCTTAGTG TGTCTGCTNC TCCTCTCTCT CCTCATCACA GTTCCCAGCC CCCACCTTCA 240
 ACTGAACTCA ACAAATCTT CAACTTCATA CAGTAGTCAC ATTGTTAGTA ATAACACTGG 300
 GCATTTTTAT TTTGATANAN TAGACCGTTT AAATTTTTGA GATTCTACCT TATATTTTTT 360
 GAATTATATA CTAAAGCANA TAAGTAGGTG NTGTAATGTC CATTGGGGNC CAAGNTTTTT 420
 AGGTGTAAAT GGNAAGGG TANCAAATTT NAANCTCAAG TAAACACCCT GTAGGCTTTC 480
 CCCATGGNTT GGGGNATNTC CGGATTAAGG NCAGGGTTT CCNTTTTCTN AAA 533

SEQ ID NO:866

LENGTH:532

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00989

SEQUENCE DESCRIPTION:

GATCTGAAGT GGTGGATTCC TTGTTTTTGC TAGTATCTCA TTTAGAGTTG AGATGGACCT 60
 TAAACTCAT CTGTTTAAAC TCACTTTTAA ATAGATGAGT TAACTTAAT TTACTTAAGG 120
 ANNNNCAGTT AGAGCCTGGA ACTTCAACCA TTATCACTC CCCATGCCCT GTTCCCCCCC 180
 ACTTCGAAAT TAAATGCGGT TAGCATCATA TAGTTCATT TCCCCCTCCA TGCTGCTGTG 240
 TGATTCTTGA CCTTGGGTAT GAGTTTTTCA TCCTTCATGC AGGGTTCTGT CAGTTCATGG 300
 TATAGTGATT CAGTGTTAAA ATGGTGGTGT CTCAGCTGTG CTGTGCACAT TTCCAACCTT 360
 GTCAAATTAA TAGTCCTGAG CAAGCAAGAA AAAGAGGTAA TAACATACCC ATTTCTTTT 420
 ATGGANTATA AGCTTAATAA TATTTTTTTC NATGNGCCTA TTTTCTACCT GNGCAAATTN 480
 GTATGGNCTC ACATGGTTAA CCCCAATNAA TTANTCTTGG NCAATTTTTA AA 532

SEQ ID NO:867

LENGTH:528

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00990

SEQUENCE DESCRIPTION:

GATCGCAAAT NCACCTAAAC AATACATTTA CAAAGCCATC TTTACATGCA TTAAACGAGG 60
GCTACAACAA TATTGTTTTA CAAATACTAG CACTTTTTTC CTGTTATGTA CTTAGTGTTA 120
GAGGGTCAAA ATAATCTTTC TGCTTAGCAT CTCTTAAACC ATACCTGCAA ATATAGCAGG 180
ATTNTTACAT TTACAGTACT TTAATACTTG TATAANCTAT GCAGAAATTT TTAATAAAGT 240
GTAATATATT TNATAAGCTA ATAAGACTGA ATGGGTAAAG GTTTTTNGCA TGC GTTAGTA 300
TACTTG CAGA TACTGAAACA TTTTGGTAAT CTTTCTTACT AAAGGATGTG AATGTTTAAT 360
GTACCTTCTC TGTTTCTACT CTGTAGTCCA ATGGGAATTC AGTAATGNCA TTTTGNCATG 420
TCAACCTGGG GACCATAAAN TTGGTCCTGG TCCAGGCCCT CATNTCCTAT ATCCAGTATG 480
CAATNTTATN TNNTNTNCCT GGTNAATNAA CCCCTCCGGG NTTTTAAA 528

SEQ ID NO:868

LENGTH:526

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00991

SEQUENCE DESCRIPTION:

GATCTTCTCT CAGTATGTGC TGATGTTTGG GTTGCTTGTC GAATCACAGA CACTCCTAGA 60
GGAGAATGCT GTTCAAGGAA CAGAACGTAC TCTTGGAATTA AATATAGCAC CTTTNATTAA 120
CCAGTTTCAG GTACCTATAC GTGTATTTT GGACCTATCC TCATTGCCCT GTATACCTTT 180
AAGCAAGCCA GTGGAACCTCT TAAGACTAGA TTTAATGACT CCGTATTTGA ACACCTCTAA 240
CAGAGANGTA AAGGTATACG TTTGTAAATC TGGAGACTG ACTGCTATTC CATTTNGGTA 300
TCATATGTAC CTTGATGAAG GGGATTAGGT TGGATACTTC ANG TGAGGCC TCCNCTGGA 360
AACAAAGCTGC AGTTGTTTTA GNTANTCCCA TCCNGGTTGA NATTGGGNGN GGNCCTTGNN 420
CCTAGCATTN CGCATCACNA AGGCAATGTC NGCNTCACAG TTANGGCATT GNGGGGCCGT 480
TTNCCATGN GNACTGGGTT ATTGGGGNCT NACCAGGTCC AANTTN 526

SEQ ID NO:869

LENGTH:526

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00992

SEQUENCE DESCRIPTION:

GATCCTGTTG CTTCTGCAGG CCATTTTCTG AAAACCCCTG TTAGGAAGGT TGGATTGTC 60
GTGACTTGCT TGAGCAAGAG TCCTGGGGAG AGATTTTNAG GTTTAATTTA ACGGTATATC 120
CAGAGCTAAC AGTGACTCAA CTCGTCTAGT TCTGCAAGTC AGATGTACAC TTAGAGTCTC 180
TCTGTGAAGG GTTTGGGTCT GAGCTGTATA GTATGTCAA CTGCCAGTAA GCCAGCCCCT 240
CACCNTCTGA TAGATATTCC TTTAATGCAC CAGACTTCAT GTTTGATAAA TGATTAATGG 300
TTGAAATTGT TTCTCTTCTT TTGTGTTTTT CCAGTTAATA GATGGTCACT GTTCCACAA 360
TGTTTTTATAC TTTCCAGCTT TTNGTAACTN AACCTATAAT TACTTNAATT TTAATTTTTT 420
TTAAAGCTTN GTTGGTGGNC CTAATGNCAA GGTNTTTTTC CAGTGCAATNA ATGGTTTTTT 480
NTGGNGCTTC TGNNAATGN CCNTCCCAAT TGTGGGTTGG GTTTTN 526

SEQ ID NO:870

00511

LENGTH:520

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00993

SEQUENCE DESCRIPTION:

GATCAGGACG GCTGGATTCA GGTGTCGTAC GAACAGTACC TGTCCATGGT CTTCACTATC 60
GTATGACCCCT GGCCTCTCGT GAAGAGCAGC ACAACATGGA AAGAGCCAAA ATGTCACAGT 120
TCCTATCTGT GAGGGAATGG AGCACAGGTG CAGTTAGATG CTGTTCTTCC TTTAGATTTT 180
GTCACGTGGG GACCCAGCTG TACATATGTG GATAAGCTGA TTAATGGTTT TGCAACTGTA 240
ATAGTAGCTG TATCGTTCTA ATGCAGACAT TGGATTTGGT GACTGTCTCA TTGTGCCATG 300
AGGTAAATGT AATGTTTCAG GCATTCTGCT TGCAAAAAAA TCTATCATGT GCTTTTCTAG 360
ATGTCTCTGG CTCTATAGTG CAAATGCTTT TATTAGCCAA TAGGAATNTT AAAATACCAT 420
GGACCTTACA CAAAAGGCTT TCATGNCCTT ACTTTNTNAA AAGGGGTTAT TGTATTCATT 480
GGATATGTGC CGTAGCAATN NNGGGNTGTT AGCGGNTAAA 520

SEQ ID NO:871

LENGTH:517

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00994

SEQUENCE DESCRIPTION:

GATCTCCGTG GCTTTGGGTT AAAAGACACA CTTGTCCACA TAGGTTTAGA GATAAGAGTT 60
GGCTGGTCAA CTTGAGCATG TTAGTGACAG AGGGGGTATT GGGGTATTT TCTGGTAGGA 120
ATAGCATGTC ACTAAAGCAG GCCTTTTGAT ATTAAATTTT TNAAAAAGCA AAATTATAGA 180
AGTTTAGATT TTAATCAAAAT TTGTAGGGTT TCTAGGTAAT TTTTACAGAN TTGCTTGTTT 240
GCTTCAACTG TCTCTACCT CTGCTCTTGG AGGAGATGGG NACAGGGCTG GAGTCAAAAC 300
ACTTGNANTT TTGTATCTTG ATGTCTTGT TAAGACTGCT GAAGATTTAT TTTTTCNN 360
TTATAATANG GGGNTAANCC CCACCTTNAT TCCTTCAATT CACCTACCA TTTTCNNGG 420
TTCTTNGTGT TGGGCTTGTG GCAGGNCCAG CTTNTGGGTT TTCCTTTTNN CCATGCCAAN 480
NTTNTNAATT NCCCATGTAC CAGTTTGNTN CAAAGGN 517

SEQ ID NO:872

LENGTH:517

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00995

SEQUENCE DESCRIPTION:

GATCAGAAAT ACAGATTTTG ATAGCAAAGC GACGTTAGNT NGANGCTCTT GTGAGGAAAG 60
TCATTGGCTT TATCTCTTT AGAGTTAGAC TGTTGGGGTG GGTATAAAAG ATGGGGTCTG 120
TAAATCTTT CTTTCTTAGA AATTTATTC CTAGTTCTGT AGAAATGGTT GTATTAGATG 180
TTCTCTATCA TTAAATAATA TACTTGTGGA CAAAAGATA TAAGTNCTGT ATAAANNCNN 240
CCAATTATGT TAAACTAGCA TATCTGCCTT TATTGTGTTT GTCATTAGCC TGAGTAGAAA 300
GGCCTTTAAA ATTTTTTTAG AAAGCATTTG AATGCATTTT GTTTGGTATT GTATTTATTC 360
AATAAAGTAT TTAATTAGTG CTAAGTGTGA ACTGGACCCT GTTGCTAAGC CCCAGCAAGC 420
AATCCTAGGT AGGGTTTAAT CCCCAGTAAA ATTGCCATAT TGCACATGGT CTTAATGGAN 480

GTTTGAATCT TAAATAAAATT GGATATTCAC TTTTAAA

517

SEQ ID NO:873

LENGTH:515

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00996

SEQUENCE DESCRIPTION:

GATCTGCGAA AGACCAACTT TTAGGCAGTG ATACTTTTCT CCCATTCCCT GGGGTGGGG 60
GAGTATGCAG TTGGTGCTTT CTGTAATTCC CTGTNCTGT TTTGTTTCTG TAAGCTTTTC 120
CCCTGGTGTC ATGGAAAGGA CTTCTTAAAT AACCACATTG TGGGTGGCTG TATCCAAAGT 180
TTAAATAATT GGCCAGAAGT GCAGAGTATC CTTTCCTGGA TTCGTGTCAG AAAAGGGCTC 240
CTTGCCACAA CTGAACCTAC TGTATAAAAA CCTGGCTAGG GAGATTTAAT TTTACTAAAA 300
TTACAGTTTA ATGTTACCGT CTAGCCACAA ATCAAGCAGC AAAAGCTATT TTGATGATGA 360
AAGGGGGTCC CGTTGAGCTG GCCATCTAGT GCAGTGTGCT CTCAGATNCC ATGTTTGTG 420
ATTGTGTGCT TCACAAGNCC NTCTCTGGTG CTTGAATTGG ATTTGAATTC TTGGTNAGAA 480
GNCTCAGCAT CTCCTTGGGG TNGGCTTGGG CCAA 515

SEQ ID NO:874

LENGTH:514

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00997

SEQUENCE DESCRIPTION:

GATCAGNAA TNAAGTCAG CAATATCATG AATTCTCAGA AGCCCTTTCA GGGAGCCAGT 60
NAGTCATACA GTATCCACAG TTGAGTCACT TAAAGATGTC AGTATACGAA ACATTATTCA 120
CAATCCTTGG GCAATCTCAT TTTTTTTTCC TTCTCCCTC CTCCCTGCC CCCCATACAT 180
TTNTATCCTT GAGTTAGTTT TGGNGGGGCA GGAAGTACTT AACATCTCAG AAGCTAGATT 240
GGGAAACATG CTCAGCTATA AGAACTGAGC TTTAAATTTT GAGTTTAAAA ATGTACATCA 300
GGAGCAGNTG GGGAGGGTCT TTTTTTTNAA AAAATCTTT CCAATTTTGG GTTTTCTNTG 360
CCATATGGCC GTTTTGTAAT TNCTTTNNGG GTTTTNNATT NTTTTNGAAA GTGGNTGAAA 420
TCTTGTNTG GGNTTTTTTT CCCCAGAAACA TTTNNAATAT AACCCNGTTT ATTTTNNAT 480
GNAAATTAAT CCTTNTTGG GTAAAAAGGT TAAA 514

SEQ ID NO:875

LENGTH:513

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00998

SEQUENCE DESCRIPTION:

GATCTTCTAT TAAANTGATT CCTCTTTATT AGAGAAGGAA AATTTAGTTG CTATACATCT 60
TATATTTNCA CAGTTTATTA AAGTCAGTNC CCTAAAGGTA CCTNCTTNC TTTGTGGCAT 120
ATATGGCATC TNCTGTCTC AGATTTNCTT ACACCTTTGT GATTTATAAT GTTAGTGATT 180
GGTGCCTTAT TCTCTGAGGA AAGATGGAGG GTTCATAAAG CAATGCCTTA TCCACAGCAG 240
ATTTNCTTGT ATATTAAGTT AAACAGAATT CTGTAAATTA TTATGAAGGG TTCAAGCTCT 300

00513

TTAGGGGGAG TTTTTTTTC TTGTTGGTTA ACAAATTGGT TGCAATCTNT TATATTTTCGC 360
AATTGGNTTA GATATTACAG TCTACTTATT TTNCCANGNG TAAATTAATT GTNTAAGGTT 420
TGGGTTNGGT ATAAATGGNT AAAATATTAA TATNGTGGGG GGTAATAATT GATTNGGNGT 480
TTTTTTTTTT NAAGGCCNNN GGNTTTANGG AAN 513

SEQ ID NO:876

LENGTH:510

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS00999

SEQUENCE DESCRIPTION:

GATCAGTATG AGANGCAATA CCTAATCCTA TGTTGCTATT GTATTTTNC CTAGTTGGTG 60
TGCCTGCTCA GAAAAACATA TACTGTATGT GTATACATAC CTGTGTATAT ATAAAAGGTC 120
AATTTATATA TNTNCCTATA GGAAATGGA GTAACAAGTT CCCTATCTCC CATATTTATT 180
TGTCCATAGT AAAATGGCCA CATTGATGAT AATTTCTAGA ACTAGTTTCT GAGATTGTCA 240
GCCCTTTGTC TAAAATAATG GCAGTATTAA TGATTGACTT CTGTCACCTGC CATAGTTACC 300
TGGATTGTCA GCCTNGGTAG CCTTTGTCTA AAGTCCTAAA GAGTTCCAAA AAAAATGTGT 360
TGAAATAATT GCTAAATAGT GGTGGGTGAT TCTTNCAGTA GGNATTTGTA ATAATTCNT 420
GGCAAANAAG GTTATTNCCT GCTATTGGTA TTGGATNATT NGNCTTNTAT NCNGGTATTT 480
TNAAAAGGC AGGNTATAN GGNTNNCCN 510

SEQ ID NO:877

LENGTH:504

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01000

SEQUENCE DESCRIPTION:

GATCTTCCAT CCTCAATGA CTCTTTTTTC TTTATATGTT AACATATATA AAATGGCAAC 60
TGATAGTCAA TTTTGATTTT TATTCAGGAA CTATCTGAAA TCTGCTCAGA GCCTATGTGC 120
ATAGATGAAA CTTTTTTTAA AAAAAAGTTA TTTAACAGTA ATCTATTTAC TAATTATAGT 180
ACCTATCTTT AAAGTATAGT ACATTTTACA TATGTAAATG GTATGTTTCA ATAATTTAAG 240
ACCTCTGAAA CANTCTACAT ATACTTATTA CCCAGTACAG TTTTTTCCC CCTGAAAAGC 300
TGTGTATAAN ATTTATGGTG GATAACCTTT TATGGTTTCC CTTCCAAAG GCCCAGGGTG 360
GGAGGGGGGA TTAAGGGGGC CTAAGGTNTA TGCCTCCNNG GTTTTAAANT TAAATNCCCT 420
CNNGGTATTT AAATTANNTT TTNCCNANGG TTTNTNGGGG GANTGGGGGG GTTTANANTT 480
GCCTTNTTTN GGGGTTTGGG GAAA 504

SEQ ID NO:878

LENGTH:500

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01001

SEQUENCE DESCRIPTION:

GATCTGGGCT CTGAGCAGAA GTCAGGAAAC ACCAACATAT TCACACTCTC CCAGTAGGTT 60
CCTCAGTCCG ATGGTGAATG GCTATTCGTA AATGGCTGGT CTGGCTCTTT GGTGTTGGAG 120

CCTTTCCAAT AGCCCCATGA AAAGAAGCAT CACCCAAGGA TATTGTAAAA AGGATGTAAC 180
 AAGGAGATAG GGTAGACATT GTACTCAGTG GGCCTTGGGG CCTAGCCCAG CTCTGAGCAG 240
 AGGACTGTGG CATTCACTGT CCTTGAGTGT TTCACCTTCT TGGATAACAC ACGGGCCTTC 300
 TCTTCTGGAT TTCATCAGAG ATTACAGCCA GATGGGGGCT GAAGACCATC CTCTTTGACC 360
 ACAGAGGGTG TGA CTGTGGG GAATTCCTCC CAATTTATGG TTTCCNAGGA AAATCTTAGT 420
 TCCTTTTATT TATAGGAATG CATGNCNTT TGGTGTTAAG GAAACCCAAG GGGNANTTAA 480
 NGGGACCANT CCTANTNAAA 500

SEQ ID NO:879

LENGTH:500

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01002

SEQUENCE DESCRIPTION:

GATCTCCAGC CTCCCAGAAG CCTGCTGTGC TTTCGTCCCA CAGCTTTCTG CCCATTGTTT 60
 CTTACTAGTT TCTTGAATTG TNCTTGTTGA CTTTNCCTCA GGGATACATT GGCCTGCAGG 120
 TCCCAGTTCA CATGTAGTCC CCTGCTCACC ATTGGAGAAT CAGCTCACTG CTCTCTAGAA 180
 ACGTGGCGTT GGTGAACGGA CCATGCTTCC GTAGCTCTGA CCTGGGCAGC TTGGACCTGG 240
 TCATCTCTA CTGCCATACC TTTCCCTGGG GGCTTGAACA CAGAACAGGG AGATGGACAA 300
 CCACTTCAAA GAAAGACCCA CCGAATGCAG TTTCTGCTTG ANTGACTGGG NCTGCAGTTC 360
 CNTTNTCCTG GGA CTTAGAG GTGGNCAGAT NTANGGCCCC TTTACTCATC CANCTTNGTN 420
 TTCAACTGGN ACTNCCNAAT NANTNAAAGA GCCTNAAATT TTAACTNGN TGTGGATNGG 480
 GNATATGGGA NTAGGGTTGN 500

SEQ ID NO:880

LENGTH:500

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01003

SEQUENCE DESCRIPTION:

GATCGTCAGC AAGTACTGTA NCTGTAAAGG AAAATCTCTC TCTCTGGAGA ACCCACACAA 60
 ACCATTGACC TGAGTGCGCA TGACAGCCAC TGGNNATNTT TTCTATGATT GAAAACTGC 120
 CATCGCTGAC TGTTGGCCAG TTTCAAAGGG ACCCATTGTA TACAGGGTGC AAATGTATTA 180
 TACGGATGTT TCCTTTTGTA CACTTCATTT TTACAAGTTT TGCTACTCAC AAGCTTTATG 240
 TAGTGAGGA TAGAGGTATT TTTGGTCTTT AGAAGCTTGT CGGGGTGAGG GCTGCTAACT 300
 TACACTTCAG AGGCCTGTGT CCCAAAGGCC TGGCTGCGTT TGCCGTGCTG TGCGAGGACC 360
 TGTGTACACA GGCAGGTGTT CGCCTGCCCC AGCGCGAGTA GCTCTTTGTG TAGTNGGTGA 420
 AAATGCTTGC AGGCATCTGT TTAATTAAAA ATTNCTGCT GTTAAAGNCA GGGGTAAAA 480
 ATNTCCACAA TTTANGGAAA 500

SEQ ID NO:881

LENGTH:498

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01004

SEQUENCE DESCRIPTION:

GATCAGGATT CAGANGTGGA CATCTTCCCC GCAGACTNCC CTACTGAGCC ACCTAGCACT 60
 GCCACGAACC GGTCTGGGCTA GGAAAGAAGT AAAATATTTT GCAGAGTCTG ATGAAGAAGA 120
 AGATGATGTT GATTTTGCAA TGNNTAATT AAGTGCCCAA AGAGCACAAA CATTTTTCOA 180
 CAAATATCTT GTGTTGTCCT TTTGTCTTCT CTGTCTCAGA CTTTTGTACA TCTGGCTTAT 240
 TTTAATGTGA TGATGTAATT GACGGTTTTT TATTATTGTG GTAGGGCCTT TTAACATTTT 300
 GTTCTTACAC ATACAGTTTT ATGCTCTTTT TTTACTCATT GAAAATGTCA CGTACTGTCT 360
 GATTTGGCTT NGTAGGAATT GTTTATAGGN CTGCCCCTGC ATTAGGCACA GGATTTTAA 420
 ATTGTCCATG GGTNNCCANC CTACCAGACC CTGCTTTTTT NGNNAATNGG AATTTTNAAC 480
 CATTNANAAA TNGGGAAA 498

SEQ ID NO:882

LENGTH:494

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01005

SEQUENCE DESCRIPTION:

GATCTTACTC CACGNATACT TTTTGGTNTG TGAAGGCATC GGTAAAGGGC ACAAAGACAG 60
 CCATGGGGAC ATTTATGTAA ATACGTCTCT AATTGCCACA CTGCAGCTGA ACAGTGTGTA 120
 GTATTTTCCC AGTCAGCTTT GCCATACTGA CGTCAATCAT TTGAGAGAAA TTATTCAGAT 180
 TTNATTTTGT TATCTGTGGT AACAAAACAT TAACCAAAAAG ATTTTNTGTC CAGAAGCCTC 240
 CCCGNCCTCC CAAGCTATTT GCTCACATTA ACANATTAAA GTGCCTGAAG CATAATTCAT 300
 TCTTTACCTG TATACTAAAA ACCCTGTTGT ATTGGTTTTT TTTNTAATAA GCCTTTTAC 360
 CTCTGTGTAA ANANATATAT ATACCAGGTG TATGATGGTN CATTTTGGGT CTTNANCTTT 420
 TTTTAAATGG TTTCTAATNT GTNTGNCCNA ATGTTGGCNT TGNTTTTANA NTTGTNCCGG 480
 GGTNNATTTT TANN 494

SEQ ID NO:883

LENGTH:493

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01006

SEQUENCE DESCRIPTION:

GATCTTGATG CTGTGGAAGT AGTTTGAGGA ACATCCTATG AGTTTNCTTA GAATGTATAA 60
 AGGTTGTAGC CCATCCAAC TCAAAGAAAA AAATGACCAC ATACTTTGCA ATCAGGCTGA 120
 AATGTGGCAT GCTTTTCTAA TTCCAACCTT ATAACTAGC AAAAAAGTGT TTGCTTATTC 180
 CACCAGTTCT ACTGTGACAT ACTCGAGTAT AAAGACATGT AGCAATAACG GGGAGTGGGG 240
 GGGGAGTCTC ACAGTGCCTT TGGAAGGGCC CGAACTTGCC TTAATCTTC CTCAACCAAA 300
 TAAGTATTTT ATTAGTGCTT GAGAGAATCT GGAATGTAGG NTGGGTTCAA CTGCACAAAN 360
 GGAAAANGNT TTTTACCACT NTTTTTATAT AGNTATAAAG TGNAGCAACC GCCTTAGTGC 420
 CTGAATATGT AGTCCATGAN TATGCCTTGT NTAATTTCCA GAAATTCCAN ACCTGTACT 480
 GTTTTTTTTC CCN 493

SEQ ID NO:884

LENGTH:492

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01007

SEQUENCE DESCRIPTION:

GATCAGCACT GCCAGTGGAG ATGGGCGTCA CTA CTGCTAC CCTCATTTCA CCTGCGCTGT 60
GGACACTGAG AACATCCGCC GTGTGTTCAA CGACTGCCGT GACATCATTG AGCGCATGCA 120
CCNNNGTCAG TACGAGCTGN NCTAAGAAGG GAACCCCAA ATTTANTTAA AGCCTTAAGC 180
ACAATTAATT AAAAGTGAAA CGTAATTGTA CAAGCAGTTA ATCACCACC ATAGGGCATG 240
ATTAACAANG CAACCTTTCC CTTCCCCGA GTGATTTTGC GAAACCNCT TTTCCCTTC 300
AGCTTGCTTA GGATGTTCCA ATTTTAGGAA AGCTTAAGGC GGCCTACAGA AAAGGGANAA 360
ANGGGCCACA AAAGTTTCCT TTAACTTTT NAGTAAAAAT TAANTTAAAN CAGCAGCAGC 420
AACCANTTTA AATTGGATT AANGGTCCN AATTGGAATT NAATTTTTTG GNTTNNNCG 480
GGNTTTNAAA AN 492

SEQ ID NO:885

LENGTH:490

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01009

SEQUENCE DESCRIPTION:

GATCGAGTTT NATGCATCAC AGTTAACATG TCAGCTGGCC CTCCAGGCC CCGCCCCCAT 60
CCCGTCCACG TTGCTGTGTC GTGAGGTGCA GCGGGTCACC CTGTGGCCCG TCCTGTGACC 120
CATATTTAGC CGTGTGTTGGG ACTCCGTGTC TTCAATGGTT TGTTAGTTGC CATTACAACT 180
TTGTCTGGGT AGAGTTTTTG AGTTTTNCA GTTCAGTATC CCTCTGTCTA TTCACACTTC 240
GTGTTAGTGG TAACTCAGTT TGTCTTTAAA TAGTTACAGA AGGGATACGT CATTTGTNAA 300
TGCTTTGTG AAGTGAGTTA AACGAGCTTT CTGTATTTTA ATGCTTTAGT GTTTCAGTTT 360
TATAAGTGAA GATTTTATTT TAAAAACCAG TGGGAAAGAG TGGGGGGTTT CTTTTATGT 420
CTGGGTCATT CAGGCAGTAC ATCTGNTTTA AAGCTGAATG TAGGACANTT AATGAAATCC 480
ANATCTGAAA 490

SEQ ID NO:886

LENGTH:487

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01010

SEQUENCE DESCRIPTION:

GATCAGCTAT ATACTATTTA TATACAAGTN ATAATACAGA TTTGTAACAT TAGTTTTAAA 60
AAGGGAAAGT TTTGCTCTGT ATATTNNTT ACCTTTTACA GAATAAAAGA NTTACATATG 120
AAAAACCTC TAANCCATGG CACTTGATGT GATGTGGCAG GAGGGCAGTG GTGGAGCTGG 180
ACCTGCCTGC TGCAGTCACG TGTAACAGG ATTATTATTA GTGTTTTATG CATGTAATGG 240
ACTATGCACA CTTTAAATTT TGTCAGATTC ACACATGCCA CTATGAGCTT TCAGACTCCA 300
GCTGTGAAGA GACTCTGTTT GCTTGTGTTT GTTTGTTTGC AGTCTCTCTC TGCCATGGCC 360
TTGGCAGGCT GCTGGAAGGC AGCTTGTGGN NGGCCGTTGG NTCCGNCCAC TCANTNCTTC 420
TGGNGCACTG GTTTNTNCTT TANAGTTANG GTNCCATGNN NCAAGGGGGG TTCCNANGNG 480
GAGGNCN 487

SEQ ID NO:887

LENGTH:485

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01011

SEQUENCE DESCRIPTION:

GATCGCAAAT AACTAAATG TGGAGTGTAG GAACCAAAT GAAACCTGCT GTATGGAAAC 60
TACTTTCACT TATGGTTCAT TGGTTTTGT ACCAATATTT TTTATGCACT TCAGTGCAAG 120
TNTTGTCACT TAACCTTACT TTATGAGTAA GCTAAATAAC CCAAATTACA TTTNTTTAAA 180
CCTGTTTTAC TACTATGGCA CTTTGATAAA ATGGTCAGGA ACCAACTTTA CTGGCAAAAG 240
GGTCCATGTA CCACCATGTG CTGGAGCATC TGTTCACAT GTGGATATCT ATGANTGGTA 300
ATGTTTTCTT TCATGTAAGT GCCTATTCAG AGTTTCAGAA TTTTAAATG CCAAATATTT 360
TCATGGGTCA TTTGCATGTA GTAAGCCAGA AAATATTCAA NGGGATTTTG GAAAACCAAT 420
TGGTATTTAA CCAGCCTCAA ATTGTGCAAC CATGGTTGTA TAATAANGGA TTTGGAACCC 480
GGAAA 485

SEQ ID NO:888

LENGTH:485

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01012

SEQUENCE DESCRIPTION:

GATCTAATGN CATATTCCAA AAGCTCAACA GCAACACCCA GGTAGTTTTG CTGTCAGCCA 60
CAATGCCTTC TGATGTGCTT GAGGTGACCA AGAAGTTCAT GAGGGACCCC ATTCGGATTC 120
TTGTCAAGAA GGAAGAGTTG ACCCTGGAGG GTATCCGCCA GTTCTACATC AACGTGGAAC 180
GAGAGGAGTG GAAGCTGGAC AACTATGTN ACTTGTATGA AACCCTGACC ATCACCAGG 240
CAGTCATCTT CATCAACACC CGGAGGNAGG TGGACTGGCT CACCGAGAAG ATGCATGCTC 300
GAGATTTTAC TGTATCCGCC ATGCATGGAG ATATGGACCA AANGGAACGA GACGTGATTN 360
TNTGGNANTT TCGTTCNGC TCTAGCAGAG TTTTGATTTC CANTGACCTT TTGGNCAGAG 420
GAATTNTTGT TTNGAAGGT TTTTTTTAG TCATCANNCT NTTGTCCTTT CAACTATCAG 480
GGGTN 485

SEQ ID NO:889

LENGTH:492

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01013

SEQUENCE DESCRIPTION:

GATCGCAACG CCAAAGGTGA AGAACCANCT CAAGGAGACC ACTGAGGCAG CCTGCAGATA 60
CGGAGCCTTT GGCCTGCCA TNACCGTGGC CCATGTGGAT GGCCAAACCC ACATGTAATT 120
TGGNTCTAAC CGGATGGAGC TGCTGGCGCA CCTNCTGGNA GANAAGTGGA TGGNCCCTAT 180
ACCTCCAGCC GTGAATGCNA GATTTTAAGA TTGCCCCGAG GAAGCAAACCT TTTCGTATAA 240
AAAAAGCAGG CCATCTGCTT AACCNTTGGN TCCACCATAA GGCCTGGGA CTNGGATTTT 300
TNTATCTGAT AGAGGTATTT NTTGTGGCCC TGGGAGCTGT CTGNTTTTCC CCTACCCCA 360

AGGNTGCCAG GAAGACGTCC ACCATTAGCC ATGTGGNAAC CTTTACTTCT ATGCTTACAA 420
GTGCCTTTNA GNGAGCCCCA ATTCTGGTTT TNCCACAAAA TAAACCTAAT GCNNTCAGGG 480
AAAACNNTTA AA 492

SEQ ID NO:890

LENGTH:478

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01015

SEQUENCE DESCRIPTION:

GATCTTGCTT CCAGGCAGCA GCTTGAATTC CCGAATCTNC CTGCAAGCNG CATAAAATG 60
CAGCGTGAGA ATCCATACAC GTAATCCATA TTCACCTTCC CATCCATCCC GCAGAAGAGG 120
CATGGTGACA CCCAGGCTAC TGTCCATGCT TGAGAGGACG TATTTGAAGG TTCTGTTACT 180
ACAAGTTGGG AATATTCACG GGCCATGCCT GAATACCCGG NCTGTANCTC ACACNGTGGT 240
CTGTGTAAGG GGNTACCCTN GGGGCGGCCT GGTTTAATCN TGATTAATAT CTGAAAGCNT 300
GGGTTNNNTG GGGAAATGTNA GGGTTTTCCCT AATGCCATTA AATTTTTTTT TAGGCNGTAA 360
AAATTAATAAT NCATTTTNTT ATCCAGCAGG CCTCTTTTAT ACCTTTATNG GGGAACTCNC 420
CATACTTACT TTCCGGCCAN NTTTTCAATA ATNAAATTA TTTTGGAAN TTTTAAA 478

SEQ ID NO:891

LENGTH:474

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01016

SEQUENCE DESCRIPTION:

GATCTTACAC TCTGCTTTTG TCCAAATAAA ATGCAATAGT ATCAATATCA ATTTAGAAA 60
AATGGACTGA ATATGCTTTT TTGGTGATGA AATCTCATGT ACGATATTTA TAGTGATGTG 120
CTTTTATTTN CTCATGAGAT ACTAAATATT AATTGTGTTG TACATTTGTN CTTAGCATAT 180
ATTAAAGTTT TGAACCAAAAT GTGTAAAGC TTACGCTTTG CCATGTAAAT TTCCAGAAG 240
TTGTTGAGCT CAAATGTATC CTACATCCAG CTGTAGAAAT TTGTCAGAAA TTGTTTAAAT 300
TTTGTATATA ATTGTACTGT TTAATTCTAG CCATTGCGCT GAACAGTATT TGAGTTACCA 360
TATAATATGG CTTTACACAA NGGNAATGTG TGGCTTTTGT TTTGGTATTT TTTCCAGTAT 420
AGGAAGTTCC CTGTGGCCTT ATTTAAAATA AAGGTTATTA GGTAAACTG GAAA 474

SEQ ID NO:892

LENGTH:473

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01017

SEQUENCE DESCRIPTION:

GATCACAGCT CACTGCAGGT TCAGCCTTCT GAGTTCAAGC AATCCTTCTG TCTCAGTCTC 60
CTCAGTAGCT GGGGCTTTAG GTGGGCACTG CCACACCGTA CTAATTTTNG TATTTTTTGT 120
AGAGACGAGG TCCACCATG TTGCCCAGGC TGGTGTCAA CTCCTGGGCT CAGTCAGTCC 180
CCCCATCTCA CCCTCCCCAA GTGCTGGAAT TACAGGCGTG ANTTACTGTG CCCAGCCTTA 240
CGGACATCCT TTTGAATTAT CTTTTTCACT CATAGAATAT GAATACATTT ATTTAGACTT 300

TTTCTAGAAC TTCCTGTTT TCATGTCTTT GNTTCACCTG GAATTGGGTT TAACACCCTT 360
TTATAAAGTT TGTGGTTTGN AAAATTTCCA TTGGGGCCAT CAATACGGAA ATATATTTGG 420
TAANATTNGG GGGTTCNATT TTTTAATTAA AATGGCAAAT GANNGGCAGG AAA 473

SEQ ID NO:893

LENGTH:473

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01018

SEQUENCE DESCRIPTION:

GATCGGGTTG AGGATTGGGG CTAGCTCGAT NACANTAAGG CCCCAACATC GNGGGACCTG 60
CTGTGGCGCG GATTCTTAGG AACGCTGTTT TAGCCGGCCC CCTCTCCAGG GGTCGCCGTG 120
GCCGGCATTG TTCCTAGTT CTTCTTGTA CCCTGAGGTG CCAGCGCGGG GAGTGAGGAG 180
GGGTGAGGGG GCTAAGGATG CAACCTCTGA CGTTCCTGCGC CTTCTAGGA GAGTCTTACA 240
TGTNTTGAGA TTTCACAAGC AATGCGAGTT GTAAAATACC AGCTCTACAN GAAGCTAGGC 300
TCTGTGACGG CATAGTTTTC AGTAGCTNTA TCACAATATT CACAATGGAG AATTATATGA 360
CATGGTAAGC AGAAATAGGC CCCTTTTAAT GNGNTGCTTC TATTTTACCT CANATTGGTG 420
GNTNTAGGNT AATCANTAAA AATCNATCCA NNGCNTTCA CAACACTNNN AAA 473

SEQ ID NO:894

LENGTH:468

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01019

SEQUENCE DESCRIPTION:

GATCAGGGGG CCAGGCCAGC AGCTCGGGGG CCACAAGGAG ATGGATAATG TGCCTGTTTT 60
TTAACACAAC AAAAAAGCCT ACCTCCAAAA TCCCCTTTT GTTCTTCCTG GACCTGGGCA 120
TTCAGCCTCC TGCTCTTAAC TGAATTGGGA GCCTCTGCCA CCTGCCCCGT GTATCCTGGC 180
TCTCAGCTCA TGGGGAAGCC ACATAGACAT CCCTTTCTTC CCTTGACGC TCGCTAGCAG 240
CTGGTAAGGT CTTACACCC TGATTCTCA AGTTTCTGC TTAGTGGCAC TGACATTAAG 300
TAGTGGGGGG ACAGTCCATG CCAGGACACC CTGGAGTAGC CTTCCCCCTT GGCCGTGGGG 360
CAGGNCCTAA CTCAGTGTG CTTTGGAGTT GAGGGTGTCT TTTCTNTTC TTTCTTTAGT 420
TCCTGTATTC TAAACATTAG TAAAAATAAA TGTTTTTTAC ACAGGAAA 468

SEQ ID NO:895

LENGTH:462

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01020

SEQUENCE DESCRIPTION:

GATCCTGCAG GACTACAAAT CCCTCCAGGA TATCATTGCC ATCCTGGGTA TGGATGAACT 60
TTCTGAGGAA GACAAGTTGA CCGTGTCCCG TGCACGGAAA ATACAGCGTT TCTTGTCTCA 120
GCCATTCCAG GTTGCTGAGG TCTTACAGG TCATATGGGG AAGCTGGTAC CCCTGAAGGA 180
GACCATCAAA GGATTCCAGC AGATTTTGGC AGGTGAATAT GACCATCTCC CAGAACAGGC 240
CTTCTATATG GTGGGACCCA TTGAAGAAGC TGTGGCAAAA GCTGATAAGC TGGCTGAAGA 300

GCATTCATCG TGAGGGGTCT TTGTCCTCTG TACTGTCTCT CTCCTTGCCC CTAACCCAAA 360
AAGCTTCATT TTTCTGTGTA GGCTGCACAA GAGCCTTGAT TTGAAGATAT ATTCTTTCTG 420
ACCAGTATTT AAGGGTTTCC AATAAAATGT ACACCNCTCA AA 462

SEQ ID NO:896

LENGTH:462

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01021

SEQUENCE DESCRIPTION:

GATCTAAATC CTCATTTATC TCTNCTATGT CTAGTATTTT ACTGTCACTG GAGGCTCTGT 60
GGGCTGTCAT AGTTAATTGA CCATAATTAG CAATATACTT TTAAAGTGGG AAAGCTGAAT 120
GACACTNTTT AAGACAATGA ACATTATCAA AACAAAATGT ATAATTNCTT AATTTGAATA 180
ATAAATTAGG CGTTTAAATG CTATTTGTAG TCTTGATATA CAGAAATAAA ATAATTAGGG 240
TTGGTCTTTT TTATTTTAGG TTGTTTTATG TTGAATGTC TATATCTTAT TAGTTAATTN 300
GTATATTNA TTAGTATTTN GGGAAATAGC ATATCTGAGA CTGAAGGGGA AATTGGCCAA 360
TTCAGTATT TGTGGTTTTT TTCCTCAGCT ATTCTGAGCT TATTTATTAA TTGNATGGCC 420
TAATGGCTAA CCATTTACAT TAAAATGGTT TTTTNCCTCA AA 462

SEQ ID NO:897

LENGTH:459

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01023

SEQUENCE DESCRIPTION:

GATCTNCTCT TTCCTCTCCT TTTCTCTATT TATTCCTAAA GGAATCTGAC CATTAAAACG 60
NCTCTACGGC CCAAAAAAAG ACAAAAAATA AAATTCCTTT TTATTCCTGT CAACTGGATG 120
GAAACACAAA TTTTCATGGAG CTGTGTACCA TCGAAGAAAC CTGGTGTCTG GCATGAAATT 180
ACTGTAAAGA ACTTCCTGTA AAACACGTTT TTTAACAAAC TGAAATGAAA AGCATTGGAG 240
CGTCTGANTG AAAGACGTGA CCTCCTGCTG GGAATCTGAT GGTCTTCAGC ATTCACCTTC 300
GTGTGTCTTC AGTGTCTCAT TGTCATCCCT NGCTTCTGGN TTGGNCCTTA GGAGTNGTTT 360
GGGATATAAC CTNAAATTGT NGGATGGGTA AANGGAAAAT TTNNATGNNG TTTTTTTGGT 420
TTTTTAAAT NATTTTNAAT NCGGGGTCAN TTTTTTAAA 459

SEQ ID NO:898

LENGTH:457

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01024

SEQUENCE DESCRIPTION:

GATCCACCTG AGCGACCTCC GGGAGTACAG GCGCTTTGAG AAGGAGAAGC TCAAGTCCCA 60
GTGGAACAAT GATAATCCCC TTTTCAAGAG CGCCACCACG ACGGTCATGA ACCCCAAGTT 120
TGCTGAGAGT TAGGAGCACT TGGTGAAGAC AAGGCCGTCA GGACCCACCA TGTCTGCCCC 180
ATCACGCGGC CGAGACATGG CTTGCCACAG CTCTTGAGGA TGTCACCAAT TAACCAGAAA 240
TCCAGTTATT TTCCACCCTC AAAATGACAG CCATGGCCGG CCGGGTGCTT CTGGGGGCTC 300

GTCGGGGGGA CAGCTNCACT CTGACTGGCA CAGTCTTTGC ATGGGAGACT TGAGGAGGGG 360
AGGGGNTTNA GGTGGGTGAG GTTAAGGTGC GTGTTTCCTG GTGCAAGTCA AGACCATCAG 420
TCTTATTAAG AGGTGGGTGC CAATTTTTTT TACNAAA 457

SEQ ID NO:899

LENGTH:457

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01025

SEQUENCE DESCRIPTION:

GATCCAGTAT CTTCTCGGC TTTTtaggga GCAGGAAAAA TCGTCTNAN AGCAACTTTT 60
TTTAAAAACC TGCCCTGTTG TATATAACTG TGTCTGTTT ACCGNGTGNC CTCCAAGGG 120
GGTGGGAACT TGATATAAAC GTTTAAAGGG GCCACGATT GCCGAGGGT TACTCCTTTG 180
CTCTCACCTT GTATGGATGA GGAGATGAAG CCATTTCTTA TCCTGTAGAT GTGAAGCACT 240
TTCAGTTTTC AGCGATGTTG GAATGTAGCA TCAGAAGCTC GTTCCTTCAC ACTCAGTGGC 300
GTCTGTGCTT GTCCACATGC GGTGGGCGTC TTGGGACCTT GAATGCCTGC CCTGGTTGTG 360
TGGACTCCTT TAATGCCAAT NATTTCTTCA NTTTCTCTG GGACACCNAG GGNTGCCNGT 420
TNGACAAAGT TTTGGNGAAC NTCCTAATT AAAATGN 457

SEQ ID NO:900

LENGTH:454

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01026

SEQUENCE DESCRIPTION:

GATCCGANGA CCACATCAAT GGGCGCGTGC TCTACTATGC CACCTGCAAG TAATGCTACA 60
GCTTCCAGCC CGTTGCCCCA CTCATCTGCC GCCTTTGCTT TTGGTTGGGG GCAGATTGGG 120
TTGGAATGCT TTCCATCTCC AGGAGACTTT CATGTAGCCT AAAGTACAGC CTGGACCACC 180
CCTGGTGTGT AGCTAGTAAG ATTACCCTGA GCTGCAGCTG AGCCTGAGCC AATGGGACAG 240
TTACACTTGA CAGACAAAGA TGGTGGAGAT TGGCATGCCA TTGAACTAA GAGCTCTCAA 300
GTCAAGGAAG CTGGGCTGGG CAGTATCCCC CGCCTTTAGT TCTCCACTGG GGAGGAATCC 360
TGGACCAAGC ACAAAAACCTT AAAAAAGTG ATGTAAAANT GAAAAGCCAN ATAAAAATCT 420
TTGGAAAAGA GCCTTGGAGG TTCAACGGGG GAAA 454

SEQ ID NO:901

LENGTH:453

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01027

SEQUENCE DESCRIPTION:

GATCTTNCTT NTAAGTGGA TAAGACAGTC CCACAGTCCA GCCTAACTAT GGGACAGCTT 60
TACGAGAAGG AAAAAGATGA AGATGGATTG TNATATGTGG CCTACAGCGG AGAGAACACT 120
TTTNNANCT GAGGGCCATT GCTGGGCTAG GTGCACCGTA ACTGCTTGTG TATCTGTAA 180
ATAGCCAGCC ATTTNCAGTT ATTATACCAG AACCTCTTCA CATAGACCTA TTAGTGCATT 240
TGTAAGTGGN TTTATTTCTT AATATATTGG AAGGTTTGTG TCCTTAGNCT AGTAAATTAT 300

CATACAGNGT TTTATTTTGA GGTTTTCTT NNNTGTGCAT TNTCCTCATG GCCTGTAAAC 360
CNCCAGGAAA CCTTTTCCTT CTNGGAAATC ATATTTGAAA TGATAATTCN TATATCCGAN 420
GTGAGGNTAG GNNCCGGGTC CTCCCAATAA ANN 453

SEQ ID NO:902

LENGTH:452

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01028

SEQUENCE DESCRIPTION:

GATCTTAAGT GAAGAAGGAA GACTTGGCCT TTTGTATTGC TTGAATATTA ACTGTCTTGG 60
AAGGAAGTTA TGCTACAAGA AGTCATACTT TCATAAAATT ATTTGCATCT GTGTCAAATG 120
CAGTTTAGTC AGAACGTAAG ACATAATAGG TGTGGACATG AACTCTGGAG TGTGAAATAA 180
AATCCACAGT TACTTAAGCA GTCTGTTTTG ATGGAAAGTA TCTTGGGATA ATACTTTCCT 240
CTGTGGGATT TTGTTCAATT TAGATGGTGC ANGGNAGTAT CAGTCTTTAA TTTTTTGT 300
GTTGTTTTTA TCANTCAATT GCTCTGATGG TATGATGCAT GGGCTTCAGG ACTCCAGCTG 360
CACCCTGTA TAAAACTCAG TTCAGGTTN CTAGCGGTCN TTGGNTAATT TTCGGGGCNT 420
ANCCCGATNC CAATTNTTTT TAATGTGNTA AA 452

SEQ ID NO:903

LENGTH:448

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01029

SEQUENCE DESCRIPTION:

GATCAGGGAC CCTCCNGCT TTCCTGGGCC TCTNAGTTGA ACAAAGCAGC AAAACAAAGG 60
CAGTTTATA TGAAAGATTA GAAGCCTGGA ATAATCAGGC TTTNAAATG ATGTAATTC 120
CACTGTAATA GCATAGGGAT TTTGGAAGCA GCTGCTGGTG GCTTGGGACA TCAGTGGGGC 180
CAAGGGTTCT CTGTCCCGG TTCAACTGTG ATTTGGCTTT CCCGTGTCTT TCCNGGTGAT 240
GCCTTGTTG GGGTTCTGTG GGGTTGGGTG GGAAGGAGGG CCATCTGCCT GANTGTAACC 300
NGCTAGCTCT CCGANGCCCT ACGGGCCTGN CTNGTGTGAG CGTGTGGACA GTGGTGGCCG 360
GCGCTGTGCC TNCTCGTGTT GCCTACANTG TNCNTGGCTG TTGAGGCGCT GCTTCANGCC 420
TGCAACNCGT CCNTNGTCTC ANTACAAA 448

SEQ ID NO:904

LENGTH:461

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01030

SEQUENCE DESCRIPTION:

GATCGGTTTA CAGATGAGGA AGTGGATGAG CTGTACAGAG AAGCACCTAT TGATAAAAAG 60
GGGAATTTCA ATTACATCGA GTTCACACGC ATCCTGAAAC ATGGAGCCAA AGACAAAGAT 120
GACTGAAATA ACTTCAAATT CCAGCCAAAC GTTCCTTGTT GCCACTTTGG GTATTCTGAG 180
ATTTTCTCTT GCATGCCCTT AGCTTTACAG CTTTTCATT TCCTGTTGTA TTTATTCTCA 240
GCCATTTTGG GCATATGTAT CTTTATAATC AGACTGGAAA CGGGACTTTC TATTAATATC 300

ATTTTTCAGA ATAAAAAATA GGGTAATTTA ACCTACCAGC CCTTCTCCCC CAATAACTGT 360
GGGCCTATAC AGNGTCAATA TATTTTTTNC AGNGAAAGGT TTATTGGGCT CGATTTTTTTT 420
CTGGAANTCC ATAATTTAAC CTTTTATGGG TTAAANTTAA A 461

SEQ ID NO:905

LENGTH:453

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01032

SEQUENCE DESCRIPTION:

GATCAGGGAC CATGAAAAGA AACTTGTGCT TCACCGAAGA AAAATATCTA AACATCGAAA 60
AACTTAAATA TTATGGAAAA AAAACATTGC AAAATATAAA ATAAATAAAA AAAGGAAAGG 120
AAACTTTGAA CCTTATGTAC CGAGCAAATG CCAGGTCTAG CAAACATAAT GCTAGTCCTA 180
GATTACTTAT TGATTTAAAA NCAAAAAAAC ACANAAAAAT AGTAAAATAT AAANCCAAAT 240
TAATGTTTTA TAGACCTGG GAAAAAGAAT TTTCAGCANN GTACAAAAAT TTANCGCATT 300
CCTTTCTTTA ATTTTGTANT TCTTTACTGT GGGAATAGCT CAGAATGTCA GTTCTGTTTT 360
ANGTAACAGN NTTGGATAAC TGAGCAGGGN ANCGNAATT TGGNTTNTA AAATTCCTTG 420
CTTTNANTAN ANNTCCCTT NNCCCGGTGG AAA 453

SEQ ID NO:906

LENGTH:445

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01033

SEQUENCE DESCRIPTION:

GATCCGATGG AGAAGGGGGG ACCCAGGCCA GCAGGAGACA GGACCCCGA AGCTGAGGCC 60
TTGGGATGGA GCAGAAGCCG GAGTGGCGGG GCACGCTGCC GNCTTCCCCA TCACGGAGGG 120
TCCAGACTGT CCACTCGGGG GTGGAGTGAG ACTGACTGCA AGCCCCACCC TCCTTGAGAC 180
TGGAGCTGGC GTNTGCATAC GAGAGACTTG GTTNAACTTG GTTGGTCCTT GTNTGCACCC 240
TCGACAAGAC CACACTTTGG GACTTGGGAG CTGGGNCTGA AGTTGNTCTG TACCCNTGAA 300
CTCCCAGTTT GCGAATTATA GAGACAATCT ATTTTGTTAC TTGCACTGT TATTCGACCA 360
CTGAGAGCGA GATNGGGAAG CATAGATATC TATATTTTAA ATTCNCTAT NGAGGGCCTN 420
GTAAATAAAT TTCTAAAAGC CTAAA 445

SEQ ID NO:907

LENGTH:444

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01034

SEQUENCE DESCRIPTION:

GATCTCAATG AAATTAATTA AATAACTATA TCTAGAAAAA CTCCCAATAT GTGAATATTA 60
AGCAACATAC TTATAAAAAA TTCATAGTTC ATGGATGAAA TCAAAAGAGA ATTCAAAATA 120
TTTCAAAATA AATTATGATG ATTATATAAN ATGTAGAAAT GTGTGGGATG CCACTACACC 180
AGTTCTTAGA GTGAAATGCA CAGCTTTCAA GGCTTCTGTT AAAAGAGTTG GGAATTACAA 240
AACAAGGAGC AGCGACTGCC AATGGGTGTG GAGTCTTTTT TGGGGTGATG ATGAAAATGT 300

TCAAAAATTG ATTTTATTGA TGGTTACACA CGTCTATAAA TATATTTNAN CGGNAGAATT 360
ATATGGATAT ATATGTGATA TATGGAGGTA TATCCTCTGT AAAATTCCTA NGGGTTTAAN 420
GGAGGATTGG GTATCCACAC CAAA 444

SEQ ID NO:908

LENGTH:440

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01035

SEQUENCE DESCRIPTION:

GATCCCAGTG TTGCCTTAAC AGGGTGTCTG TCGTGCCGCA GTAGAGCACT GCTGCTTCCT 60
CCAACCCCAA AATTTATGTT CCTAAGTAAG TCAGGTCCCT AAGCCCCGTC CCAAGAAGTG 120
ACACAAGTGG CCAACATCCA CACTGTAGGC TTGCAGGCTA CCCGCCCTGA GATTTGGTAA 180
AGAACACTGC CTTGTTCCCC ATCAGTAAAC AAGGTTACCT ACCTCAGGAG GCTGCTTGTG 240
AGAGAGCAAA TGCAGTATCT TCAGANTGAT TTATTTTTTT ANTTAATTGT AAAGACTTGT 300
GCCATTGGCT GCTCTTTCTA GTCCCTAAN TTTCTGTTCT AGTTTTAANT TTCTCTAGAN 360
CTTGCAATNG TTGGGGGGTT TTTATANTGG TGTTTTNNCA ATGNTTTGTT TCNTTANNNT 420
AAANCCTTAA AAGTTCCAAA 440

SEQ ID NO:909

LENGTH:439

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01036

SEQUENCE DESCRIPTION:

GATCGGCGTG GGGGTGCTGC TCATCTTCCT TGTCAAGTAC GACCTTAACA ACCNGGACAA 60
GCACGCCAAG CTGGACTTCC TCAACAACCT GGCCACGGGN CTGGTGTTCA TCATCGTGGT 120
AGTCAACATC TTCATCACGG CCTTCGGGGT CCAGAAGCCC TTGATGGACA TGGCACCCCA 180
GCAGTAGGAC ACCCAGGACC NTGGATGCTG CCTGCCNNTG CAACTCAGCT GCCCGACCCC 240
AGGAGTCGCC ATACCTGTNA GGTGTCCACC TCCCTGCACA TGGCACTACC CAGANTGCCA 300
GAGCCCAGGC TGGNCTCATC TGCACCATGT CCCCAGGACCA GCCCTTGCTC TGANTGCGGG 360
CCAAGNACCA NGTAGGAGGN CACTNTTGTT TNTNAGCAGN TTTTCCAGG NGGNNAGTTN 420
NNTTCTGGGA AATTGGGGN 439

SEQ ID NO:910

LENGTH:435

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01037

SEQUENCE DESCRIPTION:

GATCCAAGGA CCCACACTTT GTCACCTCAT ATCTCTCTCT CTCTCCCACT TTCGCTTTCT 60
CTGTCTCTTC TTAGTTCTGC TTTCCTCCAC TGTGCCTTCG CTCTCAGAGA GAGCTCTCCC 120
CTGGCAGTGA CAAGATGGCT GCAGCAGCTC CAGCAACCTC AGAGGACTCC CCCATCCAGG 180
GTCCTTGTA GCTCCTCATC TGTAGGATGT GCAGTAAACA CTCACGTGTC CTTTCCTGAG 240
GAGCCCAGTG GCTGGGGTGG GGGCTGAGGG GCAGCCCCTA TGCCCTCACA GTGCAGCAAC 300

CTTGGTTAGC TCACCCATCA GGGCAGACTT GGGCAGAAAT CATGTCTTGG CATATTGTTT 360
TGTAATCTGC TTTTAAATT GTCACTATAT ATTATGAGCA TTTCCCTATA ATATACAATA 420
TTCTTCCACA TTAAA 435

SEQ ID NO:911

LENGTH:433

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01038

SEQUENCE DESCRIPTION:

GATCATATGA AAAAGTAACA AGCTGTTCCN TGTTTCTGAT ACATAAAATN ATTTTAAGCA 60
TTTTATCAAT CATTAAAATT TACTGCCAGT TGTGAGTGGC TTTTAAATTA ACTTGTCTTT 120
CATTGCACTT CACTCTGCCT GTTTTCAAGG GGAGTAAGAT TGGTAACATT TGGGGAGACT 180
GTATCTGTCT ACTTAGCGTG GCTGTTTTGA GGGACTGTCC CATCAGTGAA CAAACTGCAT 240
GGCCTTGGAG AGAGACTCTG GGCTCTTGGC TCAGATGTGT TCATCAAATA CTCCTTTCAG 300
AGCTGTTGTG GGTGTAAGTG ACATGATGTG GCCAAAAAAT CCAAAGTGTG CAGTTGCGNT 360
TGTGACAACC ATGCAATGTG NCTGTAAAAA TTNANTTNCA GTTTAAATTN ANATNNTTAA 420
TATTNNGTGG AAA 433

SEQ ID NO:912

LENGTH:431

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01039

SEQUENCE DESCRIPTION:

GATCTTTCTA ATTCGAAAGC TGTGTTCTTT TTGAATACCG TGCATGGGGG TTAAGCTGAT 60
GTTAAACAG TTTGCAATAA AAAAAAATGA ATNAGCTTAA GTCATTTAAT CATTTCAGT 120
GCATTCTGCA TCCTTTAAAA ATAAGTTTAA GAAATTTAAG AGAATTGTGT TTTCATTAAG 180
TTTTGCATAT CTTTGTTTAT GCCATGTAAA TNCCCTTTTN CGTATGATTA AAGGAAGGTT 240
ATGATAAAAT GATTAGTTCA TTTACATTCA CTTGTAGCAA TTACATGAGA ATTTGAATTT 300
NGTCGTGTTT GGGTTGTNC ATTCTGTGA ATGATGGTNC AGTTAGGTGA GATTNCTGT 360
TATGGNACCC CAACTACCA TTTGGNCCTC TTTAATCTTT GGGGGGTTCC AATAAAATTT 420
GGTCACTNAA A 431

SEQ ID NO:913

LENGTH:431

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01040

SEQUENCE DESCRIPTION:

GATCCAAANT TTAAGGGATA TTGCCTATTT TGGAAGAATA AACTAAAAT GTTAAACTG 60
TTGAATTACA GAGAACAGAT GTACTCTGAG ACATAATTTT AAACAAATAT TTTAAATANG 120
GCAGGTAAAC ATTTGCGTTT AGGCACAATA AATCTGTATT AAAGGGAAGC ACATCAAGGA 180
AATATATACA TGTTGANTAA TGTAAGTAA AAATATTTTT TAAANCCAC TTTAAATGA 240
NAAATAATTT GATGGGTACT TTAAGCATTG TAGATAGAAA TTAATGTATA ATAGTGTCTT 300

CCCNGTCTTT GTATGAAAAAN TTAAAAANCTC TCTAGTCCTT TAATGAGCAT GANTTTTATA 360
CTTCTACATT TTGTTGCCTA GGNAAAATTN TCCTCNNGTA CCTTTGAGGT NATTCGGAT 420
TTTATGGTTT N 431

SEQ ID NO:914

LENGTH:430

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01041

SEQUENCE DESCRIPTION:

GATCTATAGA GAGAGATATA TACACTTTTG ATTGTTTTCT AGATGTCTAC CAATAAATGC 60
AATTTGTGAC CTGTATTAAT GATTTAAAGT GGGGAACTA GATTAAAATA TTTGTTTTTT 120
AACTAGTTTA TTAGTTTCTN TGGAATCTGC CTGTGTCCCT GGGTTTGGGT TTTGCTCTTG 180
GCAGCAGCAG GTGCTCTTG GGTGCTCCTC CTGCTCCTGC CTGCAGCCCT AAGAGCAGGT 240
GGGTGCCGAG TGTCTGGCAC AGCTTGATG CCGCCCACTG AAGACAGCAG AGGGGGGTG 300
TNTTGAAGCT CCCGNGACAC AGTCAAGCAT CTTCTGAGNC TTCGATGTCT TCGGNAAGTA 360
AAAATGGGGN TTTAGTAAAA CCCTGCCCN GTTNTCACA GGGGGTTNTT TTGCAAGNNA 420
AANTGATAAA 430

SEQ ID NO:915

LENGTH:428

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01042

SEQUENCE DESCRIPTION:

GATCAGATTC TAATTTGACA GGCAACCAGT CAATGAAACA GACACACCTG CACAGTTGGA 60
AATGGAGGAT GAAGATACAA TTGATGTGTT TCAGCANCAG ACAAGAAGTG TCTACTGNAA 120
AAGGANCCTG CTTCTTTACT CTAGAACTTT GTTCTTATAG ACCAAGATTA CATTCTCAAT 180
TAGAAAAC TG CAATTTGGTT CCACCACATC ATGACTATTA CTATAGTATA GTTTTCTCTA 240
TTCTTTTATT TTTCCCTTA CCCATTCCCT TATTTGTACA TAAAAAATG GGTGTATGTT 300
CACAAGCATT TTGCTGGTTT TNAATATTA ANTGGCCAAT GACATCCACT TGATGTCANT 360
CAANACNATA TCTGTGGGGG NAAANTACCG NTTCTTGAA ATTNCTCC NNTTTTCCA 420
TNAGTGGN 428

SEQ ID NO:916

LENGTH:428

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01043

SEQUENCE DESCRIPTION:

GATCGCCAGG TTCTACAAGC TGCACGAGCG GAGGTNTGAG CCCATTGCCA TGACAGTNCC 60
TCGAAAGTCG GACCTGTTCC AGGAGGACCT GTACCCACCC ACCGCAGGGC CCGACCNTNC 120
CCTCACGGCT GAGGAGTGGC TGGGGGGTCG GGATGCTGGG CCCCTCCTCA TCTCCCTCAA 180
GGATGGCTAC GTACCCCCAA AGAGCCGGGA GCTGAGGGTC AACCAGGGCC TGGACACCGG 240
GCGCAGGAGG GCAGCACCAG AGGCCANTNG CACTCCCAGC TCGGATGCCG TGTNTCGGCT 300

NNGAGGAGGA GATGCGGGAA GTTCCAGGCC ACGGTGCAGG ANCTCCAGAA GNNGTTNGGA 360
CAAGGNTTGG AGGAGACAAG TCCAAGNNCA AGTAGNAGCC CCTGAAGGNN TTNCAATCAN 420
GGTTTCAN 428

SEQ ID NO:917

LENGTH:424

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01044

SEQUENCE DESCRIPTION:

GATCCAATAT TCAATTCATT TGTGTACTCC CACATGCAAA ATGCTAAATT ACAATGCAGA 60
CATTAAAGAAA AAGTATTGAC TGGAGGGGTT GAATTCCTTG AGAATTTATT TTATAGTCTA 120
AATCACAAAT ACTTTACTCA ATTTAGTTTT TAAAATAGTA AACTGAATAT TTTTGTTGTA 180
AGCCTATCAG AGTCAATCCT TCGTTTGGAA TTGTTTTCTT GTTTTNCCTT ACTATAAATC 240
ATTTAAAAAC TGAATTCATT TTCTTAGATG GCATAAGTCT GTCTCTTGAG AAATAAGTAA 300
AATACTCTA TTTTCAGTAT CTGTAGCACC TGAAATAGGT CTTTGTATAG CCAGAANCAA 360
GTTATGNTTG AAGTTAGCTT TTCTTTGTCA CCAGTTTTGG NCAATAAAAA TCTGAANGTT 420
TAAA 424

SEQ ID NO:918

LENGTH:422

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01045

SEQUENCE DESCRIPTION:

GATCAACATA ATGGACCACT CCTGAATGAG ACTTAATTTT GTCTTTCAAA TTTACTGTCT 60
TAAATCAGTT TATTAAATCT GAATTTTAAA ACATGCTGTT TATGACACAA TGACACATTT 120
GTNGCACCAA TTAAGTGTTG AAAAAATATCT TTGCATCATA GAACAGAAAT ATATAAAANT 180
ATATGTNGAA TGTTAACAGG TATTTTCACT GGTTTGTTT TGTATAGTTA CTCAGACACT 240
AGGGAAAGGT AAATACANGT GANCAAAATA NGCAACTAAA TGAGNCCTAA TAATTGGCCT 300
TCGATTTTAN ATATTNGTTC TTATAAACCT TGTCAATAAA AATAAATCTA AATCAAAAAA 360
AANTTGGTTC CACCTNTGCA GGTTTTATA ANTGGTGCCA ATTAAAGGTT TTTGTTTTTA 420
AA 422

SEQ ID NO:919

LENGTH:422

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01046

SEQUENCE DESCRIPTION:

GATCCTTACT AAGTNTTTC TGGGAGACTT CCTTCATCAC ATCTTATGTT GAAATCACTT 60
TCTGTAGTCA AAGTATACCA AAACCAATTT ATCTGAACTA AATTCTAAAG TATGGTTATA 120
CAAACCATAT ACATCTGGTT ACCAAACATA AATGCTGAAC ATTCCATATT ATTATAGTTA 180
ATGTCTTAAT CCAGCTTGCA AGTGAATGGA AAAAAACNNC AAGCTTCAAA CTAGGTATTTC 240
TGGGAATGAT GTAATGCTCT GAATTTAGTA TGATATAANG AAAACTTTTT TGTGCTAAAA 300

ATACTTTTAA AAATCAATTT CNTTGATTGT AGGTAATTTT TATTTGCACT GGGCCTTTCA 360
ACTCCAGAAA CATTCTGANG GTGGTACTTG GGGTTTAANT TAAAAAGGTC CACTTTGGTA 420
AA 422

SEQ ID NO:920

LENGTH:410

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01047

SEQUENCE DESCRIPTION:

GATCGCTGTT TCCAGAACGG GGAGGAGTAT CTCATTGTGA AACAGACTCT AGAGTGGTTC 60
TATTTGGTCT TCAGTGTITT AGCCTCATTA GTTCATATTT GGCATGCAGC TTGTGGTGAG 120
TACTGTTCTA GGAAGTGGCA AAAATGGGCA AAATGTATCA CTCCAAACAC TACTGATTCA 180
GCATTGTTTT CATGTCTTAA AATTGCCACC TGCACCTTGT TTCTGCACTA TTATGTAGTG 240
CATTTTAACT TAAATTTTTT CCAGCAACAT GTTACTTATT TANGATACAT TACTGATATT 300
TCATTATAAT TANGTTCATC TTCCCTGTGA AACAAGAGAA TTGTAAAATG TTGTGGGAAA 360
ATGATACATA TGTGGGATGC TAATGNAAAT CATAGGTATT TTTGTGTAAA 410

SEQ ID NO:921

LENGTH:409

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01048

SEQUENCE DESCRIPTION:

GATCACANTT GANCTGGCAG CGGGATGGCG AGGACCAAAC TCAGGACACC GAGCTTGTGG 60
AGACCAGACC AGCAGGAGAT AGAACCTTCC AGAAGTGGGC AGCTGTGGTG GTGCCTTCTG 120
GAGAAGAGCA GNGATACACA TGNCATGTAC AGCANGAGGG GCTGCCAAAG CCCCTCACCC 180
TGAGATGGGA GCCATCTTCC CAATCCNCCN CCCCATCGT GGGCATTGTT GCTGGCCTGG 240
NTGTCCTAGC AGTTGTGGTC ATCGGAGCTG TGGTCGCTGC TGTAATGTGT AGGAGGAAGA 300
GCTCAGGTGG AAAAGGAGGG AGCTACTCTN AGGCTGCGTG CAGCGACAGT NCCAGGGGCT 360
CTTAATGTGT CTTTACAGN TTGAAANGCC TGAGACAGCT TGTTTTGTN 409

SEQ ID NO:922

LENGTH:407

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01049

SEQUENCE DESCRIPTION:

GATCCAGGCT GTCATGTGAT TTATGGTGGC ATGTGTTGTG TATTTGTTGG CTACTTGTGT 60
CTTGAAATCT AGAATTATTT CACGCAGAAAT TGTCAGTGTG TGTCAGGAAG AGAAAATGGG 120
CTAGTGGAAG CCCAGTCTTG AGTTCTTGTC TTGTTACCAT TAAAAATTGA CATTTAATTT 180
TCAAATCACT GTTGGTGCCT AATCACTNAA GTTATTAATT TATTCTGTG TATTCTTTTT 240
TTTNAATNG TAACATATTT ATCCGGTGGG TGGGACAGGA GTGTGTTCAA GTGGGTCATG 300
TTTTTNTGT GGTGACACAT GGTACAGGCT TGGAGCTTGC AGGTCCCTTT CTACTGTGGT 360
TTTGGAGCAG GNCAATTAAA GTCCACTANG AAATNCACCN CTTTAAA 407

SEQ ID NO:923

LENGTH:411

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01051

SEQUENCE DESCRIPTION:

GATCCAGGTT CCTCCAGAAA TAAGATATAC AGATTACTTT GTNATTGTAA GTGGAAC TTC 60
TACCCGACAC TTACATGCCA TGGCCTTCTA CGTTGTGAAA ATGTACAAAC ACCTGAAATG 120
TAAACGTGAC CCTCATGTTA AGATAGAAGG GAAGGACACT GATGACTGGC TGTGCGTGGA 180
TTTTGGCAGC ATGGTGATTC ATTTGATGCT TCCAGAAACC ANAGAAATCT ATGAATTAGA 240
GAAATTATGG ACCCTACGTT CTTATGATGA CCAGTTAGCT CAGATAGCAC CTGAGACAGT 300
ACCTGAAGAC TTTCATTCTT GGAATAGAAG GTGATACTTN ATCTGTNACT NCANTGGGNG 360
TTAAATGTG GATTAAATTN TTTTANTGCA NTGNNGTAG TCATTTTCAA A 411

SEQ ID NO:924

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01052

SEQUENCE DESCRIPTION:

GATCAGAGCN TATNTTATGA TTGTTGATAA CTAACCAAAG TAGNTGCCTG CAGAGACTTT 60
AAAATGTAAA ATAAAGATGT ATGCTGCCTG TCAGCTATTC TCATTTAAA 109

SEQ ID NO:925

LENGTH:405

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01053

SEQUENCE DESCRIPTION:

GATCCGAGGC TGGGAAGAAG GGGTTGCCCA GATGAGTGTG GGTCAGAGAG CCAAAC TGAC 60
TATATCTCCA GATTATGCCT ATGGTGCCAC TGGGCACCCA GGCATCATCC CACCACATGC 120
CACTCTCGTN TTCGATGTGG AGCTTCTAAA ACTGGAATGA CAGGAATGGC CTCCTCCCTT 180
AGCTCCCTGT TCTTGGGTAA GGAAATGGAA TACTGAAGGG CCCTTCACTG CCTTTGCTCC 240
TCCCATGTTA TGCCAGCGT TTGATGGGTA GCAGAGAGGA CANANATCAC CACATGGCTA 300
TTTTTCCNC TGAATNCTGT CTGNATTGN GTACCTNTCA AGTGTTATTA GTGNATGCTT 360
TNGAAATGAA AAATTTGGGC NACCTTATGG GNAGGGNGTN GGAAA 405

SEQ ID NO:926

LENGTH:405

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01054

SEQUENCE DESCRIPTION:

GATCTTAAGC AGTAATCTGT CAGTGTTTGT ATTTGTATTC TCTGCAATTT TACTGTGAAA 60

AAAAATTTGT TTTCAACAAT TGGTGTCAAT TTCTTGATGT CACTATTTGT NGGAGAGTTA 120
 AATGGTCTCT NCCCTTTGTG TATCTTACCT AGTGTTTACT CCTGGGCACC CTTAATCTTC 180
 AGAGGTGCTA AATTGTCTGC CATTACACCA GAAGGATGCC TCTGATAGGA GGACAACCAT 240
 GCAAATTGTG AAATAGTCTT GANGTTCTTG GATTACTTTA CACCTCAGTA TTGATTTGTC 300
 CCAGAATTTN CTGGCCTTNC ATGGCANTGA AANTNTTNGG GGGAAAGATT TAANGTATTT 360
 NANTTTTAAN GAGTGTGTTA TAANNATANT TGTACTGNNT NCTNN 405

SEQ ID NO:927

LENGTH:404

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01055

SEQUENCE DESCRIPTION:

GATCTATGTT ACATTACCA CACTGAAGTT TTTTGTGTG TTTTGTGTT GTTTTAAAG 60
 AATCACCTC ATTGTGAAA GTAAATGTAC TCTAGGGTG CGAATATTAG TGTCCAATA 120
 AGCATGTGAT TATATTAAGG TGGTGGTAGC GGGAAAGATAA TTCTGATTCC ATTGGGAATC 180
 TTAGGTTTTT GTAAATTTAT TGGGAAAATA GTTTTCTCTG TACTGCTGAA GTTTCTTTT 240
 GGTAAACAGT ATCTTTCTAA AAGAAAAAAG CATGAAGGGA GAAATTGAGG TGTGTATACA 300
 TTTCTCAAA TGACCAGCAT TGTATTCGTG AATACTGTGT ATCTTGCAGT GAACAGTGTG 360
 GAAGCTGTTC ATTTTCAAT CTGAAGTAAA ATACTTTCAA GAAA 404

SEQ ID NO:928

LENGTH:399

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01057

SEQUENCE DESCRIPTION:

GATCANGTGT AAATGTGACC TTGTACAGTT TACTAAAATT ACTGATATTT TCACTACAT 60
 TGAGACAGTT ACTGTGAGAA TAGGACACAA ACACCAGCTA TTGCCTGCAT CTGGGAAATT 120
 GCTGAATCGC ACAGCAGTCA TGTCATAATC AGAAAATTAC TGCCAAATAA TTGTAAAATT 180
 TGTAAGTAT AAAGTATATA AAGTAGATAC TAAATACAGN CACTTCANTA TTTGTTGAA 240
 GCTATTGACT GTACANTTAG ACATTTTCAN ANGGGTGTAA TTTATTTANN GTTGTCTCAT 300
 TTTGGTAAAA TTTATGTGAA CTTTAAAGC TAANTATTAA NCCTTAATAT GCTATGTAAA 360
 TTTTTTCNT NTATACCATT TNCTGGTGGT NTTTTTTN 399

SEQ ID NO:929

LENGTH:397

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01061

SEQUENCE DESCRIPTION:

GATCTGCAGA AGGTATCTGG TGATGCAGAG ACTCTTTCCC CGCATCCNTC ACATGAAAGA 60
 CCCCATCGGT GACAGCTTCC AAAACGACAA GCTGGTGGTC TGGGAGGCGG GCAAAGCCGG 120
 CCTGGAGGAG TGTCTGGTGA CTGAAGTACA GGTCGTGCAG AAAACTTGAG ACTGGGGTTC 180
 AGGGCTTGTG GGGGTCTGCC TCAATCTCCC TGGCCGGGCC AGGCGCCTGC ACAGACTGGC 240

TGCTGGACCT GCGCACGAGC CCAGGAATGG ACATTCCTAA TGGGTGGTGG GCATGGGAGA 300
TGCTGTGTTA ATTCGTCCG AAGCTGCCAA GGAAGAAGAC CAGAACTTG TGTGTTTATT 360
TCATGATAAA GTGATTTTTT TTTTTTTTNA ACCTAAA 397

SEQ ID NO:930

LENGTH:402

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01062

SEQUENCE DESCRIPTION:

GATCCCCAAC AATGTCAAGA CAGCCGTCTG TGACATCCCA CCTCGTGGCC TCAAGATGGC 60
AGTCACCTTC ATTGGCAATA GCACAGCCAT CCAGGAGCTC TTCAAGCGCA TCTCGGAGCA 120
GTTCACTGCC ATGTTCCGCC GGAAGGCTTC CTCCACTGGT ACACAGGCCA GGGCATGGAC 180
GAGATGGAGT TCACCGAGGC TGAGAGCAAC ATGAACGACC TCGTCTCTGA GTATCAGCAG 240
TACCAGGATG CCACCGCAGA AGAGGAGGAG GATTTCCGTG AGGAGGCCGA AGAGGAGGCC 300
TAAGGCAGAG CCCCCATCAC CTCAGGCTTC TCAGTCCCT TAGCCGTCTT ACTTCAACTG 360
CCCCTTNTCT NGTCCNTCAA GAATTNGTG TTTTGCTTGC CN 402

SEQ ID NO:931

LENGTH:396

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01063

SEQUENCE DESCRIPTION:

GATCTGCCGA CCTTGCTATA GATGCCATGT TACCAATGAT TTCCTGTGGT GGGGGCTTGC 60
CATNTTTTAC TCTCTTATTT ACCAACTTCT GGCCTAGGCA TGACAGTGGG CACCTTCCCC 120
CAGCCCTGGN TGGGCCCAGC GCCTNTTTTC TGTGTTAGAA AGGTTTATA TATATATAAA 180
ATTACATATA TATGTAGAAA TATATGTAAT NTTGGGGGCC CTGTTCTCTG CACATTTTAC 240
AGTTACCTCA TTTTNTCCCA TGTATGTATT TGAGAAAATG CTAATATATA GNGAAAAAAA 300
TGGGTCTTA AAGCTNAAAT GTNGGGTTTT TNCCATTCCA GGGGNTCACA TTNGGTTTGN 360
GGCATNGACN ATACCTNGTA TGTCGNNNTA TAAANN 396

SEQ ID NO:932

LENGTH:394

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01064

SEQUENCE DESCRIPTION:

GATCCGTGGA TTTTGGTGC AATCCCCTT TTATTCTTG TCTGAAGAAA GCCTACTGCC 60
TTCTGTTGGG ACCAAAGAGG CCATAGTGCC CATGGAGGTT TGGACTTAAG AGATATTCAT 120
TGGCAGCTCA AAGACTTCCA CCCTGGAGAC CACACTGCAC ACAGTGA CTGCTGGGGATG 180
TCATAGCCAA AGCCAGGCCT GACGCATTCT CGTATCCAAC CCAAGGACCT TTTGGAATGA 240
CTGGGGAGGN CTGCAGTCAC ATTGATGTAA GGNCTGTAAA CATCAGCAAG NCTTTATAAT 300
TCCTTNTGCC TAANTTGTA AANGGGGGNC TGCATTCTTG TTGGAAGNAT GNACTNTNTT 360
TNNGGAAAAC CACATTTTAA AAANTTCCCG TAAA 394

SEQ ID NO:933

LENGTH:393

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01065

SEQUENCE DESCRIPTION:

GATCCACAGG CTTTGTACT CAACGCTGAC AACACCCTA AGAGGTAGGT ATCATTATAT 60
CAACCATTTT ATGAATAAGA AAACAACAGC ACAGAGAGAT GCAGTCACTT GCCCAAGGTC 120
ACACAGGGCC AGGGGTGGG CCAGGATTCG AAGCAGGCAG GCTGTCTCCT GGGTCTGAAC 180
TCTCAACTAC TACACCCTAA TCAAACAATC CCTCTGGTCA AATGTGAGTG ATAATAATAG 240
TACCCACCTC GTGGGTGTTG AGGGTGAGCC CAAGTTAGCA TTCAGCGTGG GCATGTGAAC 300
AATTATAGTC AATATTGANT GGAGACCTAT GATGCTTTTA TGAAGGTTTC TATTTTGGGT 360
TAAAAAATGC ATAAAATTC TCCTGACCAG AAA 393

SEQ ID NO:934

LENGTH:393

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01066

SEQUENCE DESCRIPTION:

GATCACCTTA AGTGAAATNA TTNCCCTTA ATCTTTNATG TATTTATTCA CTTTGGGAAG 60
CTAGGAATGA GCAACACAAA TTTACTCTG AAGTCAGAAG AGCTCATATA TAANTTTCT 120
AATGTCCAC CTATTTTCAC TTGTCCATTC CATGTACCAG CTTAGTTATG ATANNNGTC 180
ACATAATTAT CTTTGATAAA GGTAGAGGCA CAAAGAGGCA AACTAAGCAA GTCAAATTCT 240
AATGTGTGTA CTTCATAATA ATTTTTTATC CATTTTCATC TTTATATTCT GTAACATGAA 300
NCTTACCTAA TCTCAAATG TTAGCTTCCA TTTTTTACCT TTGAAATACT TAAATCTTTC 360
TGGANTAAAT ATAATGGGGC CTNTAAAANT AAA 393

SEQ ID NO:935

LENGTH:392

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01067

SEQUENCE DESCRIPTION:

GATCCTGTTT TTCAGCAGG TGAAAAATAA AACGCANTCA AATTCATGG TTTAATTTT 60
NAACTCAGAA GCACTCAAAA ATGCAAAATG TGATAATGGG CACTTGTTTA AAAGANTTAG 120
TGTATCCAGC CTTCACTCCA GCTGGTTAAA AATGTTGCAC TTATCAGCAA CCNNACCACT 180
TTCATCTGCT GAAAGGNCAA ATGTGCTTGG TTTTACTATT ATGTAATCAC AACTTTCTTT 240
TNTGCTTGTA GTTGCTTAAA ATTATGTATT TGGTCTNGGG CTGCAATTTG GTTNATGCT 300
NTATNTGATT ATTACNGCAG TAGGTTGCCT NTCCNGTATG GGAAAAATAA AGTGGAATNG 360
CCCNAATTAA ACCNCCTCTN TCTTAAGGTA AA 392

SEQ ID NO:936

LENGTH:391

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01068

SEQUENCE DESCRIPTION:

GATCAGGCAG CCTCTGATG CCAGANCACC TCAGGCAGAG CCTACTCAGC TGTACCTGTN 60
TGCCTGGACT GTCCCTGTC CCCGCATCTC CCCTGGGACC AGCTGGAGGG CCACATGCAC 120
ACACAGCCTA GCTGCCCCCA GGGAGCTCTG CTGCCCTTGC TGGCCCTGCC CTTCCACAG 180
GTGAGAAGGG TCCTGTCCAC CAGCACACTC AGTTCNTTTC CCTGCAGTGT TTCATTNAT 240
TTTAGCAAAN ATTTTGCCTG TTNNTGTTNA AACATGATAG TTGATATGAG CTGAACCCCT 300
GGGTTNGGNG GGAATTGGTC AGAGTGGCAA CCTGGGACTG TGAGCCCTGT TCGGNACAGN 360
NTATGGATAT GAAAANTCTG NCCNNNGCNA N 391

SEQ ID NO:937

LENGTH:390

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01069

SEQUENCE DESCRIPTION:

GATCTTTCCC AAGATTGTAA CTGAAACTG CTGTCTCTTG TTTNTTCGT TTTGGGGGTG 60
GTGGTGCTGG CTGGGCCATG CTTGTAAAGT GATGTGTGTC TCTGATTAA CGGATTCACT 120
GTTTTCTCTG CTAATTGAGA GAGCGTTATT TACATTATTT ATTTGTTTTG ACACAAGTNC 180
TTTCAGTGTT TTATCCTAGC TAATGGCTTC TTAAGGTAA TAAACCCCTT CCAACGTAAT 240
TGGTCAGATA AAACCTTTTT CTTGTATGC TTAAATAAAG CAATTAGTGA AGCACTTCTA 300
TCCAAATGA CTTTTTTGTC CTTTTTTAA ACCAATTTAC TGTTACTGGA AACTTTGTAC 360
AATAAAGCAA ATCACGCAGA TTAANGGAAA 390

SEQ ID NO:938

LENGTH:389

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01070

SEQUENCE DESCRIPTION:

GATCAGAGGG AAAGAATGAC CAACCNNGCA ATAAGTGAC TAAACTCTAC GCTCTGGTTA 60
ATGTAATGTA CTCTCCTGGA CTGAATGCAG TGTATAATTN CTGTCTACAG CTAGAAGCTG 120
TGCCCCAGTT CCACATTTGA TTACACATGT NAGATTTGCT GCTGTTGCAG TATAAACACT 180
AGGTATAATA GGATTTGAAA TTGCATTACA GTTCATAAAA NTNGAAAATG AGGAATTAAT 240
CCNGCAAGTG AACATTTGAA CGNTTATNCT NTCTACATAA GACATGGTTG GGACATCAGT 300
ACTNACAAGA TGGTTTANGT ATGGTACTAG NGNANTTAAG NTTTCTTTCT CTCTGGTTTA 360
TNGATNGGGT TATTTCCATT ATGTATTNN 389

SEQ ID NO:939

LENGTH:390

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01071

SEQUENCE DESCRIPTION:

GATCTCACGC TGCCTCTGTG GTTCCCTCCC TCATTTTTC TGGACGTGAT AGCTCTGCCT 60
 ATTNCAGGAC AATAATGGCT ATTCTAAACG CTAAGGAAAA AAAACAAACA CAGAAGTGT 120
 TCAAGTACTC AAGACTGACT TACAGACCAA CCAACCACCT TGCTGGAACC CTTGCTAGCA 180
 GGCATTCTTA TAAAAGAAAC TTTCGAGCCT CTTATATTG CTGGAACTC AGCTGTGCTC 240
 CAGACTAGAG CCTCCTTACC TATGCTATGG ATTTTAAATT TATTTCTCT TATTCATGT 300
 AACTGCTTT TTTTGGTTAC AGTGTATGAT GGATGTGTAT GAAAAAATG TATCTTTGGG 360
 GAACCAATTA CAGTTTGTG AATTTGAAAA 390

SEQ ID NO:940

LENGTH:543

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01072

SEQUENCE DESCRIPTION:

GATCCACACA CGTTGGTCTT TTAACCGTGC TGAGCAGAAA ACAAACAGG TTAAGAAGAG 60
 CCGGGTGGCA GCTGACAGAG GAAGCCGCTC AAATACCTC ACAATAAATA GTGGCAATAT 120
 ATATATAGTT TAAGAAGGCT CTCCATTGG CATCGTTAA TTTATATGTN ATGTTCTAAG 180
 CACAGCTCTC TTCTCCTATT TTCATCCTGC AAGCAACTCA AAATATTTAA AATAAAGTTT 240
 ACATTGTAGT TATTTTCAA TCTTTGCTTG ATAAGTATTA AGAAATATTG GACTTGCTGC 300
 CGTAATTTAA AGCTCTGTTG ATTTTGTTC TGTGGGATT TTTGGGGGAG GGGAGCACTG 360
 TNGTTTATGC TGGAAATATGA AGTCTGAGNC CTTCCGGTGC TGGGGACCAC ACANGNGTTN 420
 GTTGNAAGT TTGACCAAGN AGNCCTGCGC ATNNCTCTG GATGCCTNTG GTATCCATTC 480
 TTNGANGCAA TCCGCTCGGG NCCCGTGGG CCAATAAANC NGGTATTTNT CCAANGGGG 540
 AAA 543

SEQ ID NO:941

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01073

SEQUENCE DESCRIPTION:

GATCTCAAGA TTTCTAAATT GTCAAGATTT ACATGGCATT GTGGTGAAC TAGTTAACAC 60
 TTAGAGCTTT TGGTATGTAA TAACTATTTG CTATGGACTG ATTAATGTT TCAAAGATT 120
 GTGTTCTTCA AA 132

SEQ ID NO:942

LENGTH:387

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01074

SEQUENCE DESCRIPTION:

GATCAGCACT AAGTCCTGCA TTCCTGTAA AGCCACTTGG GTCATAAGAA GGGAGTAAAA 60
 AATGAAGTCT GACTAGNAAC CTATTGCAGA GGCCAAGTAC ATTTAGTATG GCATTGAGTT 120
 GTGATATAGT TTTACTTTGA TGTGCATTTT GAATTCAGC TACACCTAGA TAGACGTAAA 180

ATGATAATTA AAATGCTGTA ACCAACTTAT CTAATAAAAT TGGCAACCAG CCACTATTTT 240
 GTTGA CTATG AGAAAGTTAA AAGTTTATGT TAATTTTNG GGTCTGATAG AATATTT CAT 300
 GTGTATTACA GTGGTATTCA TATGCTATGT CTCTAAACTT TATTTTCAAA AGCTTANGGC 360
 CCANATACAA NCTTCTCTGG GNNTAAA 387

SEQ ID NO:943

LENGTH:386

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01075

SEQUENCE DESCRIPTION:

GATCAGANAA AAAGTCCATA TGGACTGTGG ATACCTATCT AAAAGAAGAA AACTGATGGC 60
 TAAGTTTGCA TGAAACTGC ACTTTATTGC AAGTNAGTGT TTCTAGCATT ATCCCATCCC 120
 TTTGAGCCAT TCAGGGGTAC TTGTGCATTT AAAAACCAAC AAAAAAGAT GTAAATACTT 180
 AACACTCAAA TATTAACATT TTAGGTTTCT CTTGCAGATA TGAGAGATAG CACAGATGGA 240
 CCAAAGGTTA TGCACAGGTG GGAGTCTTTT GTATATAGTT GTAAATATTG TCTTG GTTAT 300
 GTAAAANTGG AATTTTTTAG ACACAGTAAT TGAAGTGTAT TCCTGTTTTG TATATTTAAT 360
 AAATTCTTG GTTTTCATTC TTAAAA 386

SEQ ID NO:944

LENGTH:383

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01076

SEQUENCE DESCRIPTION:

GATCTTCTAG CTACCATNCA TTTTCTTCAC TGTCACAAA AGATGAGTGT GAAATTCAGT 60
 GAATGCTGTT ACTAATCCTG TTACGAGATG AATCTCATTT CACCAAAATT AAATTATGTT 120
 TTTCCGCTAA AATGATGATA CAAGTTGAAG ACACATCACT CTGAAATTGG AAGACCTCAC 180
 CACTTAAGGC TCCACAGTGG CTTACTCAGC TGAAGTCTAG GTTACTACTC TTTACTTTGT 240
 TCACCCATTG GGGGGTGCAG TTTTTTAAA ATGTTGGGAG ATGGCCATTC TAACTACTGT 300
 TGAATGTCTC TGTTTTGGGA AGGTATAACA NGAANTAAAA ANGNTATAT ATGANGGGAG 360
 AGNCTGGTTA TCTCCTCCCC AAA 383

SEQ ID NO:945

LENGTH:382

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01077

SEQUENCE DESCRIPTION:

GATCTCTCCA TGTACCCTGC AGGGGGCTTG GTACTGTGAA ATNAGTAACT TAATCCTGAC 60
 AACCGTAGTG CAAGGTATGG CCCATCTCCT GTACGCTTGG AGCGACCTTT GGCTACGTGG 120
 CTGGCCTTGT TATTTACCA CTCTGGATAT ACTGGAATAG AAAGCAACTT ACATACAAGA 180
 ACAATTAAGT GGAGCAAAGG GAGATATTTT TTTGTGCAGA TTCTGTAAGG GCTGGGCAGA 240
 AATGTGTATG GTCAAAGCCA AGCAGTTCCA TTTACAGCTC TGTTTTTTTAC GTAGTTACAA 300
 CATGATGTGA TTGTAGCTTT TTAAACTATG AAACCCCTGA GAGATTGTAC CTTCTAGTT 360

GAAATAAAGT ATTTATAATA AA

382

SEQ ID NO:946

LENGTH:381

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01078

SEQUENCE DESCRIPTION:

GATCCGAACA CCTCCAGATT CCGGCTTCTA CATGGNNCAG ACGGGGACGC ACAGGCCACC 60
TTCCTTCTGG CAGGGACTCT TATTTATTCC CATTGCTCTA GGGCTTTCNN TTTCCNTTC 120
TTCCGGTAGG CCGCGTAGAG GCATGCACCG GGTAGGTTTC CGCGGTGACC CCGCGGCGGC 180
CTGAGGGACG CTCCTGCCC CATCCCGGCT GTTGGGCTGG GCCGCTTTCG CTCTGCTTCG 240
NCCTGTGCTG TGTTCCTCAG CTTTGTAGCA GCAGCTTGAC AAACCCAGGC GCACTGTACC 300
AAGGCAATGT AACTTTTAT TTTTCGGTCAA TTTAAGTTCT TTTTGTACC AAATATTAAT 360
AAACCAGTTT TGGACTTAA A 381

SEQ ID NO:947

LENGTH:380

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01079

SEQUENCE DESCRIPTION:

GATCTGAGTC CAGAGTTGGC CACTTGTGT GGGTCCTCAC AAGCAAAGAG AGCACTAAAC 60
TTGACATTGG GGGTCCACCA CTCCAACTTT NCTTTCTGAA GGTTTTGGTG TACATTGAGC 120
CCCAGAAGGA AAGGAGAGTA TCTGTGAGTG GGGGCTCCC TTGACCCAG TACGAAGTCT 180
ATGCCCTGAA TCCCCAGAGT AGCCCTTCCT GGTGCCCAAC TGGCCTGGGG ACAANCACCG 240
TCCACTACAT CTAGGCTGCC GGCTAAGTGG CACACTTCTT GACCTCCTAC CAGGACTTTG 300
GTAAAAGCTA GCTTTGGGGA GGGGTGGGTT AAATATGAGA GGTGGAGGNG CCANTGGTAG 360
AATAACATGG GTAGACTAAA 380

SEQ ID NO:948

LENGTH:380

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01080

SEQUENCE DESCRIPTION:

GATCTGCATC AGTTGTAAAG GGGAATTGGT ATATTCACAG ACTGTAGACT TTCAGCAGCA 60
ATCTCAGAAG CTTACAAATA GATTTCATG AAGATATTTN NNNCAGAAT TAAACTGCC 120
CTTAATTTTA ATATACCTTT CAATCGGCCA CTGGCCATTT TTTTCTAAGT ATTCAATTAA 180
GTGGGAATTT TCTGGAAGAT GGTCAGCTAT GAAGTAATAG AGTTTGCTTA ATCATTGTGA 240
ATTCAAACAT GCTATATTTT TTAATAATCAA TGTGAAAACA TAGACTTATT TTAAATTTGT 300
ACCAATCACA AGAAAATAAT GGCAATAATT ATCAAACCTT TTAATAAGN TGCTCATATT 360
TTAAAAATA AGGTTTTAAA 380

SEQ ID NO:949

00537

LENGTH:399

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01081

SEQUENCE DESCRIPTION:

GATCAAAGCA TGCAATAAGC AATACAAAAT ACCAAGCCTT ATACTTAAAA GAAGTTTAAC 60
ATATTGGTTA ATATACTGGT TAATATACTG GTTAAACATA TTGAATGTAT ATAAGTGGCA 120
AAACTAGATT TTTAAGGAAG TGTACATTAT AATATTGGAG CTCAGTACTG CATGANGAGA 180
CTTCATTAAA ACTAAGAAAN CATTTATTTG GGGAGAAATT TTAGGCATTT AAGANCTTGT 240
ATTTTCTAT TTTAAAAAGT TAAATTATTC CGTAATTTGG ANGGAAGTTT CGTTGAATGT 300
AGGCCATAAC CGTTTGANGG GTTTTCCTTT GGANAACCTG GTGTNTTNG GTGCCCTTAN 360
TATTTTGGTC CTTTAAATAA AAATGCNCCT GNATTTTCN 399

SEQ ID NO:950

LENGTH:379

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01082

SEQUENCE DESCRIPTION:

GATCAGGCCC TGGGCCCCC TGCATCTTTT ATAGCAGTGG GTGTCCAGTC CAGGACACTG 60
GTGCTTTTTT ATACAAGAGA ACGAGCCAGA GTTCACTCCT TCCTCCTGGC TCTCTATATA 120
CCTGTGAATA TGTGAAATAG TGTAAATATG AAAGAACTTG TACCTATCAC TTCAACCCCT 180
GCCTTGTAACA TAATACTATT CCATCCACAC AGTTTCCACC CTCACCTGCC CCNTCATACG 240
GAGTTGGATG GGGGCCGAGT NAGGTAACCA GGTGGCATCT ACCNNATGTT TTATAAGGAA 300
TTTTGTACAG TCTTNGTGAA ATAAAATAAC GTGCTTCATT TGNAAAAATN NNGTTNNNTT 360
TNTNTTNTNT NGNGGGTTN 379

SEQ ID NO:951

LENGTH:376

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01083

SEQUENCE DESCRIPTION:

GATCTAGTAG AAATAAGGG ATGGGAAAAA CCTTTTCATT TTTCATCTNC TTTCCAACAA 60
TATGAATTC TTAGTTTCA AACTATACTC AGGAAAGCTG GGCTTTAGGA TTTAATATGT 120
AGTGATGAGT TCTGTGTGTA TTTTAATATT TNACTCAGGA TTCCTATTAA TTGAAAAAA 180
TTTTTAACCT TTTTATTATA AATCTTTTTT TCAGGGAGGN GATATCACCA AACATGATGG 240
AACAGGCGGA CAGTCCATTT ATGGAGACAA ATTTGANGAT GAAAATTTTG ATGTGAACAT 300
ACTGGTCCTG GTTTACTATC CATGGCCANT CAAGGCCAGG ATTACCAATA ATTCNTCATT 360
TTTGTATAC CACTGN 376

SEQ ID NO:952

LENGTH:375

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01084

SEQUENCE DESCRIPTION:

GATCAAGCCA CCACGTGCCC TACGATGGCC TAACAGGAGT GCCCATTGGC AGATTACACA 60
TGTAATATG ACCTCAGACA AAAAGGAACC AGAGGCCCAA GGGCAATAAT AAGGTGGAAT 120
TTNCAGGTCA GCCCAGGAAT TGGCAGAGGA AGTAGGTGTC TGATAACCCT TTGTGGAGAA 180
TGAGATTCCC CCCACCTGTG TGAGAAAAAT AAACAGCTCT GGAGTCTTGT NCCTGACTCC 240
AGAGGAACGA GAGCATTCCA GGAAAGAGAG ATTCCCTGGA AAATTGAAAA TGTGAATCCT 300
AGGGGGAAAT TGGGGATTGT NTCTTCCCT GTTGAAATG TTTNGNTGGG AATAAATATC 360
TTCAGGAACC ATAAA 375

SEQ ID NO:953

LENGTH:374

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01085

SEQUENCE DESCRIPTION:

GATCTTCTNC ACACACCCCA TCACCCAGAT AATTTACAGT TCTGTTAACA GTGAGGTTGA 60
TAAAGTATTA CTGATAAAAA ATTATCTAAG GAAAAAACA GAAAATTATT TGGTGTGGCC 120
ATCTTACCTG CTTATGTCTC CTACACAAAG CTAAATATTC TAGCAGTGAT GTAATGAAAA 180
ATTACATCTT ACTGTTGATA TATGTATGCN CTGGTACACA GATGTCATTT TNGTTGGTCA 240
CAGCACTACA GTGAAATACA CAAAAATGA AATTCATATA ATGACTTAAA TGTATTATAT 300
GTTAGANTTG ACAACATAAA CTACTGTNGC TTNGAAATGA TGTATGCTTC AGTAAATCA 360
TATTCAAATN TAAA 374

SEQ ID NO:954

LENGTH:376

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01086

SEQUENCE DESCRIPTION:

GATCAAAGCA AAGAGCGCCT TTCCATGTAT CTCATGAAAG CTGACCTGAT GCCTTTCCTG 60
TATTGGAATA TNATGCTAAG GGGTTACTGG GGAGGACCAG CGTTTCTNCG CAAGTTGTTT 120
CATCTAGGNA TGAGTTAAGN ATGGCTCAGC ACTTGCTCAT CTTGGATGGC TTCTGGGCCA 180
AAACTGCAGT CACTGAATGA CCAAGAGCAG CACGAAGGAC TTGGAACCTA TCCTTGTAAT 240
GAGTTCCTTG ATGGGTAATG GTGACCAAAT GCCTCCCTTT TCAGTACCTT TGAACAGCAA 300
CCATGTGGGC TACTCATGAT GGGCTTGATT CTTGGGAAT ANTAAATTGA AATANTACTT 360
TTNTTTTCTG AATAAA 376

SEQ ID NO:955

LENGTH:371

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01087

SEQUENCE DESCRIPTION:

GATCAGAACC TCCAAATACT GCCATGAGAA ACTAGAGGGC AGGTCTTCAT AAAAGCCCTT 60

TGAACCCCCT TCCTGCCCTG TGTTAGGAGA TAGGGATATT GGCCCCCTCAC TGCAGCTGCC 120
 AGCACTTGGT CAGTCACTCT CAGCCATAGC ACTTTGTTCA CTGTCCTGTG TCAGAGCACT 180
 GAGCTCCACC CTTTTCTGAG AGTTATTACA GCCAGAAAGT GTGGGCTGAA GATGGTTGGT 240
 TTCATGTTTT TGTATTATGT ATCTTTTTGT ATGGTAAAGA CTATATTNG TACTTAACCA 300
 GATATATTTT TACCCAGAT GGGGATATTC TTTGTAAAA ATGAAAATNA NAGGTTTTTT 360
 NAANTGGNAA A 371

SEQ ID NO:956

LENGTH:368

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01088

SEQUENCE DESCRIPTION:

GATCTGGGGA GGGCTAGCCC AAAACCTCCC GCATCGGGCA GGCACCCCCT GAAGTACTTC 60
 CTTACAGGGT TCCCCTTTGT NAGGGTGTCT AGTAGCCTCA CCGGCCTGTN TGGAGGAGCA 120
 GCTGGCTCTG CTCTGAGAAA CTCTGGCAAG TGGACGCCAT TCTNTTGGCC TTAGGATTCA 180
 CTGCTCTCTC CTACAGCCGC CAGNCTGGG GTCCTGAAAG ACCTTGGGTG GTAAAGCTGT 240
 ACTTGGTGGG AGTNAGGGCG TGGGGAGGAA CCATGCAAAT CGCCTTCCAT GGGTTTTTAA 300
 NTGCAGTAAA TAACATTTCT GGATGAGACT NGTTTCCAAA NTAAACCNNG CTATTATCTG 360
 TTTTGAAA 368

SEQ ID NO:957

LENGTH:369

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01089

SEQUENCE DESCRIPTION:

GATCCGAGCT CTGGAGCGTG GATACCGGAT GTCTCGCCA GAGAACTGCC CAGAGGAGCT 60
 CTACAACATC ATGATGCGCT GCTGGAAAA CCGTCCGGAG GAGCGGCCGA CCTTCGAATA 120
 CATCCAGAGT GTGCTGGATG ACTTCTACAC GGCCACAGAG AGCCAGTACC AACAGCAGCC 180
 ATGATAGGGA GGACCAGGGC AGGGCCAGGG GGTGCCCAGG TGGTGGCTGC AAGGTGGCTC 240
 CAGCACCATN CGCCAGGGCC CACAACNCGN TTNCTACTT TCCNAGACAA CNACCNTCGG 300
 TTTCAGGCCA CAGTTTCTT CATCTGTCCA GTTGGGGTAG GTTGGGACT TGNAAAAATN 360
 TTTTTTTN 369

SEQ ID NO:958

LENGTH:366

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01090

SEQUENCE DESCRIPTION:

GATCGAGCCA CTGCACTCCT GGGGCAACAG AGCAAGACTT CGTCTCAAAA TAAATAAATA 60
 AATAAAGTGG CTCTTGGGGA AAAGCAATTT AATGTACCAC GATGAATAGC TAACTGTTCC 120
 CAAGTGTTTG CTATGTGCAA CACACCGCGT GAGAGTGTTA CCTGCATTAT TACATTAGGC 180
 TGAGAGGTAA AATAATTTGC CCGAAGACAT ACAGCTAGTG ACGAATGGAC TGATGGTTTG 240

AACTTAACGT CTATTTGACT TAAGGTCCTG CACCCTGCCA CTTGTAATTT TCAGANTCAC 300
TGATAATCTG AAATAATGCA GCTTAAACCA TGTTTTCTTA ATTAAAAGTA TAATTGGATG 360
GTGAAA 366

SEQ ID NO:959

LENGTH:364

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01091

SEQUENCE DESCRIPTION:

GATCCTGAAG GTGAAATGAA ACCAGGAAGA AAAGGTATTT CTTTAAATCC AGAACAATGG 60
AGCCAGCTGA AGGAACAGAT TTCTGACATT GATGATGCAG TAAGAAAACGT GTAAAATTCG 120
AGCCATATAA ATAAACCTG TACTGNTCTA GTTGTTTTAA TCTGTCTTTT TACATTGGCT 180
TTTGTCTTCT AAATGTTCTC CAAGCTATTG TATGTTTGGA TTGCAGAAGA ATTTGTAAGA 240
TGAATACTTN CCTTTAATGT GCATTATTAA AAATATTGAG TGAAGCTAAT TGTCAACTTT 300
ATTAAGGATT ACTTTGTCTG CCCACCACCT AGTGTAATAA AAANTCAAGT AATACANTCT 360
TAAA 364

SEQ ID NO:960

LENGTH:364

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01092

SEQUENCE DESCRIPTION:

GATCTGGGGC CGNCCTTACG GGGCAGGGCT CAGTCCTGAC GCTTGCCACC TGCTCCTACC 60
CGGCCAGGAT GGCTGAGGGC GGAGTCTATT TTACGCGTCG CCCAATGACA GGACCTGGAA 120
TGTA CTGGCT GGGGTAGGCC TCANTNAGTC GGCCGGTCAG GGCCCGCAGC CTCGCCCCAT 180
CCACTCCGGT GCCTCCATTT AGCTGGCCAA TCAGCCCAGG AGGGGCAGGT TNCCCGGGGC 240
CGGCGCTAGG NTTTGCACTA ATGTTCTNT CCCNGCGGGT GGGNGCGGGG AAATTCATAT 300
CCCCTGTTTC GTNTNATGTT GTGTCNNNCG NNCCCAAATT TAAAAAGGNA ATTTNAAAAA 360
GGTN 364

SEQ ID NO:961

LENGTH:362

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01093

SEQUENCE DESCRIPTION:

GATCGAGGGG CGGGGGTCAG CTATGCAGCC CATCACGTGT GTTTTTCATC TGGGATGAAA 60
AAGCCTGGTT CTCTTTTGAA ATGCTTGATT GTACTTATTG AGCTAAACAA GNCTTGGTGA 120
CTNTTGTGA TTTGCCCTCAA AAGTTTAAAG TCCTGGGTTT TCAGACTACT GTGTAGCAGC 180
TGTGTGTTTA ACATACTGTA GCTTTTCTC CCTTGGGGGC ACATACAAAT AGGATGTGTT 240
GATGTGGACT CTAAACTGTA ATTTTCCTGT AACTATTTTG GAATGATGCA TATTTCTAAT 300
GTTTGTATA CTTGTACAGA GTATTTGCTG TTGGTTGCTT TTTTTTTTNN TTCANNGGGA 360
AA 362

SEQ ID NO:962

LENGTH:360

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01094

SEQUENCE DESCRIPTION:

GATCCAGGCC AAGGCACTGG CTGTNAGTGG CAGAGTTTGG CTGTAACCTT TGCCCCTAAC 60
ACGAGGAACT CGTTTNAAGG GGGCAGCGTA GATTGTNTNA TTTGCCACCT GGATGAAGGC 120
AGACATCAAC ATGGGTCAGC ACGTTNAGTT ACGGGAGTGG GAAATTACAT GAGGCCTGGN 180
CCTCTNCTTT CCCAAGCTGT GCGTTCTGGA CCAGCTACTG ANTTATTAAT CTCACCTAGC 240
GAAAGTNACG GATGAGCAGT AAGTAAGTAA GTNTGGGGNT TTAAACTTGA GGGGTTCCCT 300
CCTGACTAGC CTNTNTTACA GGANTTGTGG NAATATTAAN TGCAAATTTA CAACTGCAAA 360

SEQ ID NO:963

LENGTH:358

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01095

SEQUENCE DESCRIPTION:

GATCCAATTT GTAGCTTCCT GCCTGGCTTC AGAGAGCCCA GCAACCTTCT AGGCCTGCTT 60
TCCAGACTTC TGAGATAGCC TGGGATGAGC AATCCTGTTA TAGTACATCT GGACCTTCCC 120
TACCTGGGCT CTGGGGAGGC TGTGGGCCTG GAGAGGGAAA AGGAGGGAGG GGGTGTCTGC 180
ACCACCTGGG AAGATAGCAC AAGGCCTAAT GAGGTCACCC TGA CTCCCCA CCCCAGCATT 240
TCATTCATAC CAGATAATAG CTGCATTACT GCCANCTGAC CTTATAACCC TCTGCACCTT 300
CAAAAAGGTT CATGGTTTTT AATTGCTGCT TTTTAATAAC ATTTTGTNA AGNTTAAA 358

SEQ ID NO:964

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01096

SEQUENCE DESCRIPTION:

GATCGGCCCT ACTAAGATGC AGAGACCCCG NCAGAGCTNG CATTGACTAC CAGATTTATT 60
TTTNAACCA GAAAATNTTT TAAATTTATA ATTCCATATT TATAATGTTG GCCACAACAT 120
TATGATTATT CCTTGTCTGT ACTTTAGTAT TTTTNACCAT TTGTGAAGAA ACATTAAAAC 180
AAGTTAAATG GTAAA 195

SEQ ID NO:965

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01097

SEQUENCE DESCRIPTION:

GATCCAAGAC TGGCTGACTT CATTTGAAAT GGTGAATCT GCTGTGTAAT AAAGTGGTTC 60

AACCATGATT AGGAACTGAA ATTTAGTAGA AGAGGGAAAA GGAGTTAATG TAACAAATTA 120
 TTTTAGCTAC AAACCCCGGT AATAGAGCAC TTGGGGGATG GGATGGGGTG GGTTGGTGAG 180
 ACAATCAGAA TGGTAAATTG ATTAATGCT CCTAACCTG TAATTTTG TG CATAGAGCAC 240
 CCTATGCTGT GGAAATAACT GTTCTTAGAT TTCATTGTAA CTGGACTGTT CAGGTTGCC 300
 AGAGGGAAAG ACCATTCTA ATTCTAATAA AATAACCTT TATTTTGTTA TTCAA 356

SEQ ID NO:966

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01098

SEQUENCE DESCRIPTION:

GATCTCCACC ACCATCTCCC CTCTACTTCT CATTCCCTAA CTCTCTGCTG AATATGGGGT 60
 TGGTGTCTC ATCTAATCAA TACCTACAAG TCATCATAAT TCAGCTCTTG AGAGCATNCT 120
 GCTCTNCTTT AGATGGCTGT AAATCTATTG GCCATCTGGG CTTACAGCT TGAGTTAACC 180
 TTGCTTTTCC GGAACAAAA TGATGTCATG TCAGCTCCGN CCCTGAACA TGACCGTGGC 240
 CCCAAATTG CTATTCCTG GCATTTTGTG TGTCTCTCA CTTATCCTGT TCTCTGAAGA 300
 TGTCTGTGA CCAGGTTTGT GNTTCTTAA AATAAAATGC AGNGACATGT TTAA 356

SEQ ID NO:967

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01099

SEQUENCE DESCRIPTION:

GATCTTCCAC AAAACATCTA GCCATCTAAA ATGGAGAGAT GAATCATTCT ACCTATACAA 60
 ACAAGCTAGC TATTAGAGGG TGGTTGGGGT ATGCTACTCA TAAGATTCA GGGTGTCTTC 120
 CAACTGAAAT CTCAATGTC TCAGTACGAA AAACCTGAAA TCACATGCCT ATGTAAGGAA 180
 AGTGCTATTC ACCCAGTAAA CCAAAAAAG CAAATGGATA ATGCTGGCCA TTTTGCCTN 240
 CTGACATTC CTTGGGAATC TGCAAGAACC TCCCCTTCC CTTCCCCAN TAGGNCCATT 300
 TAAGTGTGTG TTAAACANCT ACAGNATACT ANNTAANAAG TTTGGCCAN NCCAA 356

SEQ ID NO:968

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01100

SEQUENCE DESCRIPTION:

GATCAGATTT TTGGGTCATG TCTGTTGTAT TTTCAGTAAT GTGATTTTCA ATGGTCATCT 60
 GGATTCTCCC ACTTCTCTAC TCCATTATTT CTCTACTTTT CCTTCCAGCA NACCTGANN 120
 GTGAGGGAGA TGGATTAATG TGAGTAACAG GAATGTGTCT TAAAAAGCT AGAGTGGTTA 180
 CATTTAATCA GGCAGTAAGA TAATTTGGGT TCTTGAGTTG TTTTGGNGTA ATATCCACA 240
 ACTGGGGTAG GAAGCTCAGG ACTTTTTNT TAAAGCTAG TCATTTCAA AGCATATTGT 300
 ATTTTTTTGA NTGACTACAG TATGCCCAAN TTCAANANCC AAANCCCNCT TTGGG 356

SEQ ID NO:969

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01101

SEQUENCE DESCRIPTION:

GATCCAACAA TTTTNAAGAG CTCTCTCTTA ATCTCTGACA TAATGAGTCT GAAACAAAGA 60
AAAGTTACCT TACCGTGTCT TTA CTTCCTT TCTTCTGGGC TGTGAACTCA AGTGCCTTGA 120
GGGCCAGCTA AGAGCTTTTT GGGATATTTG TCTAACTTAA TTGAACTGTT ACTGAAAGAT 180
AAATTAACAA AATGGTTCAG AGTTTGGAT TAAGACCTTT GTA ACTAACT GACCGTCAGC 240
ACAGGAGCTT CGGTTTCCTT CTCTGTAAAA CAGGGCTCCT CATTCCAATT CCACCTATCC 300
TG TAGCCTTG TGGGAATAAA AGGAGGCACC ACGTGGAGGT GCTTGGCAGG NTGAAA 356

SEQ ID NO:970

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01102

SEQUENCE DESCRIPTION:

GATCATANAA NGGCCATCTG GGCCAGCTN GTGTACAGCG AGGGNGGGCA GCCCCCTCCA 60
CTCCACTCTG CTTCCACAAA GTCGGCTCCC GAGAGCTCGA GGCTGCTTCT TTTTATATGT 120
GCAGGGCCCG GGC GGGTGAA GGGTCAGAGA GACGGACACA AGGAGCCGGC AGGAGNGCGG 180
ANCGAGGATG TCCTTTCCCG GGAGACAAGT CGGGAAAGCC TGGCTGGA CTGCTCAGCCC 240
CGNGTGANTC CTGGNCTNAA GGNTTCCCG TCCTGAGCTC GGGAGATNTT CAGAGTCACA 300
CTGNCGNCT GTCTTGCCAC GGAGAGGTCA ACTTGCCACC GGNAGTNCNT GGTAN 355

SEQ ID NO:971

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01103

SEQUENCE DESCRIPTION:

GATCCAACA ATATCTTCAA GGCATTCTTT GGCGGTCCTG GCGGCTTCAN CTTTGANGCA 60
TCTGGTCCAG GGAATTNNTT TTTNCAATTT GGCTAATGAA GGGCAACCAC CCAGAACCCA 120
GAAAATNCAG ATTCACTCAG TTTAATCTTG AATGTGGAAA CAGTTCACCT CCTCCCTTCA 180
TCACGTCTCC GTGTGCTTAG AGCAGTTTCG TTTTCTCAGT TGGATGCCCT GTGTCTCTGT 240
GAGTGGGGTG GAGCAAAGGG AACCAATGCC GAAGACCGAG GGCAGGGGAG GGGAGGCGGG 300
GGTNGGACAG NGAGGCAGCT TGTGAATTTT TGTTTACTG TTAACTTTA TTA AA 355

SEQ ID NO:972

LENGTH:352

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01104

SEQUENCE DESCRIPTION:

GATCNTAGGC TGGGGCCAAC TGGAACCATT GGCAGCTGCA CGCTCATTAC TACCCTCCGC 60
 TCCTGCGCTC TGCCACTGTC CGGAAATTCA TGGTTGGCTA CGAAATGCTT GCTCAGGCTC 120
 AGAGGGACCT CACCCCTGAG CAGGCTGCAG AGAGACTAAG GGCACCTCCT GAGGTTTCATT 180
 ACCACCTGGG GCAGAAGGAC AGGGAGACAG CAACCATCGC CTGACCACGC CGACCACAGG 240
 GCCTTGAATC CTTTTTTGTT TTCAACAGTC TTGCTGAATT AAGCAGAAAAG GGCCTTGAAT 300
 CCTGGCCTGG AATTTGGGCA GATATAGCAT TAATAAACT GTGCATCTCA AA 352

SEQ ID NO:973

LENGTH:358

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01105

SEQUENCE DESCRIPTION:

GATCAAGGGG GTTGGGAGGG GGGAAAGAGA CCAGCCTTGG TCCCTAAGCC TCCACNNAAC 60
 GTCTTCTTAA TCCNCACCTT TTCTTACTCC CAAAAAGAA TGAACACCCC TGA CTCTGGA 120
 GTGGTGTATA CTGCCACATC AGTGTGTTGAG TCAGTCCCCA GAGGAGAGGG GAACCCTCCT 180
 CCATCTTTTT TGCAACATCT CATTTCTNCC TTTTGCTGTT GCTTCCCN CN TCACACACTT 240
 GGTGTTTGTTC TATCCTACAT TTGAGATTTC TAATTTTATG TTGAACTTGC TGCTTTTNTT 300
 TCATATTNGA AAAGATGACA TCGGCCCCAA GGNGCCAAAA NTAAATGGG ANTTGAAA 358

SEQ ID NO:974

LENGTH:354

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01106

SEQUENCE DESCRIPTION:

GATCTTAGGC AAAATACCAG NTGATGAAGG CATCTGATGC CTTTCATCTGT TCAGTCATCT 60
 CCAAAAACAG TAAAAATAAC CACTTTTTGT TGGGCAATAT GAAATTNTTA AAGGAGTAGA 120
 ATACCAAATG ATAGAAACAG ACTGCCTGAA TTGAGAATTG TGATTCTTA AAGTGTGTTT 180
 CTTTCTAAAT TGCTGTTTCT TAATTTGATT AATTTAATTC ATGTATTATG ATTAAATCTG 240
 AGGCAGATGA GCTTACAAGT ATTGAAATAA TTACTAATTA ATCACAAATG TGAAGGTTAT 300
 GCATGATNGT AAAAAATACA AACATTCTAA ATTAAAGGCT TTTGCAACCA CAAA 354

SEQ ID NO:975

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01107

SEQUENCE DESCRIPTION:

GATCAGAGCT TGAACACAGG CTTATTTTTTA AAANNANAAA TATTTTTAAC ATGGGTTTCC 60
 TTATTGAAAA ATCAGTGTAT TAGTCATAAA ACACCATCAT TAAGAATAAT TGAACAATAA 120
 AGTTTGCTTT CAGATGCAGT TTTCAAATTA TAATCTCATT TCAATTTATA ACGTTCTCAG 180
 TCCTTTGTTA TAATTTTCCT TTTTCATGTA AGTTTAATTA TCTGCATTTA TCTTTTTTCC 240
 TAGTTTTTCT AATACTAATG TTATTTCTTA AAATTCAGTG AGATATAGGG NTAAATAAAT 300
 GCTTTGAGGA GNATGTTTAA TAGGAAATTA AAATAACTTT TTCTGGCCAA A 351

SEQ ID NO:976

LENGTH:420

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01108

SEQUENCE DESCRIPTION:

GATCCAGAAC ACTTCAAGAA CTCGTCAAAC AGCTCGATAA GCCTTTTNA CTGTNTACAT 60
CTGTACCGGG AATAACATTC CTAGGCTGAA ATTTCCACAA AGAATAGAAC CTGTACCCAG 120
TTCTTCAGGC TGATTTCCCT GACCTCTTGG GCATTTGTAT TTGTAGTAAA GTATTGCAGA 180
GATTCCTAAG TTTTTATAG CAGCCATCAA ATTTGGACTT TGTATTGTTT ATTCATAAAA 240
GACACTTGGT AATAGACTTC AGTGAACCT GTATGAATGC AGTAGTGTGC GTGCAAAATC 300
CGCTTCCTGA GCGTAGGGTG CTGAGCTGGC GCTAGGGCTC GGTGTGTGAA ATACAGCGTA 360
GGTCAGCCCT TCGCTNAGT GTAGAAACCC ACGGTCTTA AGGTTCTGGC CTTGGTCCAN 420

SEQ ID NO:977

LENGTH:349

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01109

SEQUENCE DESCRIPTION:

GATCCTCATG TACTCAGAGG CACTTCCCTC CTAAGTCAA GACCATCCTC ACTGACTATG 60
TGCCAACGCC TCGTTTCAGG CTTGTNACTC AACAAAGGGC TTTTCATTG ATAGAAGCAG 120
TTTGGGATTT GTAGTTGCGA CTTCTTCGAT AGTTACCTGC ACGTCCATTG CTGGCAACTG 180
ACTTGTCATT AAAACCTGGC TCTTTGGTTA AGGGAGCTAC GCTGTGGTTT ATTCTTAAGT 240
TACGTGGATA AACTAACCTC TAACAGAAAT ATACTTTGGT TAATTTTGAA ATGTGTCATT 300
TTTAAACAAT CTTAAAAGTA ATACAGAATT GTGATTTATT AATTTTAAA 349

SEQ ID NO:978

LENGTH:349

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01110

SEQUENCE DESCRIPTION:

GATCAGAGTG GGTAAAGCTG ACCAGGAACA CCCATTTAAC CCCTTTTNCT TTTTGCTTTC 60
ATTTTTATAA AGGAAAAGAG GACCTGTCAG ATAGGCAGCC CCATGCTACG TGATTCTTTA 120
TGTTGTGTTG TTTTGTGTTG TAAATTGTAT AATTTTTAAA TATCTGAGTT TTAATAAAG 180
AAAAAAGTAC AAAAAAATCT TGTTATGGCC TTAAGAAGGG NNTAGTGCAT CTTTCAGGGG 240
TCACTCTGCC ATGGGGATAA AATAGCTGTT TCACAAACAG TTTTATTTAA AAAANCAANN 300
ACCANNAAN ANTCAAAATN TCATGNAANN TTTTNAACCT TCATTTTNN 349

SEQ ID NO:979

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01111

SEQUENCE DESCRIPTION:

GATCACGTGG GTGTCAGTAT CTTTAACGGC CTTTATTCTT GGTGTGNAGA TTTTATTTGA 60
TATGCCCCT CACCCTCGAC GAATCTGCCC GCTTTGGGCT GTGGTGCCTG TGTATCTTTG 120
CCCGTCTGGT CTCCAGTTGG TGGAATNACC TTTTTTGTAC TGCCACTTCT CAGCATCTTT 180
NAAATTTGAC ATAATGTTGC TTCATTTTCTG TTTTAAAGT TCTGTAATTT GTTGATTGTA 240
TTTAACATG TNAGTTCTGT TGTNATGTTT ACTGTATTGT AAAGCACCTC ATTCATGTNA 300
TGAGTGCTCT ATAAATCAAT AAATGATGAC TTAGAGGGCT GTAAA 345

SEQ ID NO:980

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01112

SEQUENCE DESCRIPTION:

GATCTGCTTG GNGTTTTCTN CCCCCACCC CAAACTTCTG TCGAGGAGCA AGGCTTGCCA 60
GCAAGTCAGA AGGATTTGAA CCGAGCAGCC AATCTTTCCA GCCCTCCNT ACCGACCTCT 120
GTCTGGAGAC GCAGCAGCCT GTGTCTCCA GGGCCTCTGG TTTGTNGTAT TATAGTATAT 180
TTNGCTGTGG AAAATGTCAC GTTTAGTCAC CTTGGAGCCA CTCACCTGGT CCTGTTGTTT 240
TANCCCATCC CTTCTNTNGN GGGCTATTGA TTTNTTCTNA GGAGAGTACA NCGTCACTAT 300
TGTAGNGTAA CCCTGTACTC AATATTACCA TAGNCGNTG NCGN 344

SEQ ID NO:981

LENGTH:357

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01115

SEQUENCE DESCRIPTION:

GATCAGAAAC CAACCATGAA TGAACCCCTG GCTCCTTCAC CACCCCCACG ATTGGTATGA 60
TGCTGCCGGC ACAGNTGGGA TACACACGGC TCCCCCAGGC CTGAGCTGCT TCACTAGGGA 120
ATCCTGCCAC CACCCTGTCT TCCTCTGCAA GTGCTCAGGG AAATGGCCTT NCCGCCGGAG 180
NCATNCTATC TGNCTGACAG GCTGTGACTC TTCTCTCAAC CTTGGCCTTC TCCCCTCTTC 240
TGAGCTAGTT GGTGAATNN NNGTTAATGC TTAAGATTTG TTTTCTCTT TTCACAGCAA 300
CATTTTCTTG AATTTTTTTC TGCACAGCTT TTCCAAAATA AAAACCTTCC AAACAAA 357

SEQ ID NO:982

LENGTH:340

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01116

SEQUENCE DESCRIPTION:

GATCAGAAAT AAGATTGACT TGGGTGTTAT ATTTTCTCTC TCTCCAGACT CTAGGTATAT 60
TTCCAACTTT ATATATCACA GTATTTAAAA AGACATGTTT GCATTGAGAA ATTAACCCTA 120
AAGGGTTTTT AATAGGGTGT AGACCTCCAG TACCTTTGTA ACTAAAGTCT GTCTAGTCAT 180
NGTAAATATT TATCTGTCAG TTTTGACAGA TTGGGGCCAG CTTGATGTTT TAAATCTTCA 240

CCCCGGTATG AAAACTTAAA GGTATATATT CANTTTTTTA CCATTTTATG GAAAATATTT 300
AAAATCTGTT TTTACAGGGT TTTTTTTTTT TTTTTTTTN 340

SEQ ID NO:983

LENGTH:340

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01117

SEQUENCE DESCRIPTION:

GATCTGGTTC GGCTGCTGTC GGATGAGGAC GTAGCGCTCA TGGTGCGGCA GGCTCGTGGC 60
CTCCCTCCC AGAAGCGCCT CTTCCCTGG AAGCTGCACA TCACGCAGAA GGACAACTAC 120
AGGGTCTACA ACACGATGCC ATGAGCTGAC GGTGTCCCTG GAGCAGTGAG GGGACACCAG 180
CAAAAACCTT CAGCTCTCAG AGGAGATTGG GACCAGGAAA ACCTGGGAGG ATGGGCAGAC 240
TTCCTGTNTT TGAGGCTAAT GGACCCGTGG GGCTTGTAAT CTGTCTCTTT CTACTATTTA 300
CATCTGATTT AAATAAACCA TTCCATCTGA AAGGGGCAAA 340

SEQ ID NO:984

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01118

SEQUENCE DESCRIPTION:

GATCTATGTA TTATTAGAAA AATGAAGTAT TTCTGACATG GAACAAAGAA AGTGGAAGT 60
GGTACTTAAT GGGGGAAGCA AAATTAGCTG GGAATAAAC GGACATGTTT TGTTTTGTGA 120
ATTCTACCTA AATGTCTCTC TATCCACAGA GAACTAGTA TTAAGTGAAG ATGTGAAAGT 180
TCCTGTGGTA GCCATACCTT GAAGCACAGT GTTTGTACAT AAGTAAATAT CTTGATTCTA 240
AATTAAATCC AGATTTATCT AATATATATN ATTTNATATC TTTGTTGTAT TAAANTGGTT 300
TAATANTCAC TANAANTANN ACATTTTGNA TGTGAAAA 339

SEQ ID NO:985

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01119

SEQUENCE DESCRIPTION:

GATCTCAGGA ATTTTGTAG GGGATTGAAG CCAGANCTAG TTGCGTCCCA GGGACCAAGA 60
GAAAGAAGCA GATATCCAAA GGGTGCAGCC CCTTTTGAAA GGGGTGTTTA CGAGCAGCTG 120
TGAGTNAGGG GACAAGGGGC AGGTCCCAGG AGCCACACAC TCCCTTCCTC ACTTTGGACT 180
GCTGCTTCTN TTAGCTCCTC TGCCTCTGAA AAGCTGCTCG GGGTTTTTNA TTTATAAAAC 240
CTCTCCCCAC CCNCCACCCN CCAACTTCCT GGGTTTTCTC ATTGTCTTTT TGCATCAGTA 300
CTTTGTATTG GGATATTAAA GAGATTAAAC TTGGGTAAA 339

SEQ ID NO:986

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01120

SEQUENCE DESCRIPTION:

GATCCTTTCC GACACACATG TCTGAAGACT TATTTTCAAA GNCAGCACAT TTTTGGAAC 60
TAATCTCTTT TCCGTAATAT TTCCTTTATT TCAATGATTC TCAGAAGGCC AATTCAAACA 120
AACCCACATT TAAGGTTCTT TAGGATTATA GAATAAATTG GCTTCTGAGT GTTAGCTCAG 180
TGAGCTAGGA AAGCACCAAT CGATATTTGT TTCCTTTAGG GATACTTTGT TCTCACCCT 240
GTCCCTATGT CATCAAATTT GGGAGAGATT TTTTAAATA CCACAATCAT TTGAAGAAAT 300
GTATAAATAA ANTCTACTTT GAGGACTTTA CCAAGTAAA 339

SEQ ID NO:987

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01122

SEQUENCE DESCRIPTION:

GATCCAAAGT GTTAAAAATG CTGAAGTCAT GTCAAGTACT GTCTGGAGGG TTTTTTTAAG 60
AAAAGGCATT TGGCATTAA CTGTCTCTTG TTTTATTTT AAGTTTTTGG AAACCTTTTG 120
ACATAAAATG CTGCCAAGTA TCTAAGAAAT GTATATACTG ACAGAAGATA TTTGAAAGTG 180
GAAAATTGGA AATGAAATAT GTTGCTGGGN GCGTTAATCA CCTCCGCCCA GGATTTAGTC 240
ACTTGCAAGGA CCTCTTTATA GTCTAGGATG GCAGAGCAGA AGATTTTAAT ATGCTTTTAT 300
TAAGTGATGT AAAATAAATG CTTTTTGGAT TATCAAA 337

SEQ ID NO:988

LENGTH:371

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01123

SEQUENCE DESCRIPTION:

GATCGGCCAG CCCCCACCTA CAGCAACATG GAGGAGGTGG ATTAGCAGGT CCCTGGCTGA 60
TGGGGGGGAC TGGGTTTGGG ACACCCACAC AGNGGGCCAG CTCCTTGCCG CTTCTCCTTC 120
TCTAACCCAG AGGACACTGG CTCTGTCAGT GGGAACTGA GGGGTATGAT TTGGGTGTGG 180
AGACCTCTCA GGTGGGACT TCTTGTCAGC TTGGACCCCT GACCAGTGGG CTTTGGCTTC 240
TCCAGCCGCC TCCAGTGCTG CGTGATTGA TTCTGTTGTA CCTTCAATTC TTCTGACCCG 300
CATTATAAAC ATTATAATTN NATTCTAAAA ATTGTAATTT TTTTGCAAT TTTGGAAGTG 360
ACTGCTGCTG N 371

SEQ ID NO:989

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01126

SEQUENCE DESCRIPTION:

GATCTTCTTT ATATTCTACT TGAGTGCTGT CTCCATGTTG ATGTATCTNA GCAGGTTGTC 60
CACAGGTAGT CTAGGAGGGT GGCAACTTAG AGGTGGGGAG AGAGATTCTC TTATCCAACA 120

TCAACATCTT GGCAGATTG ACTCTCAATC TCTTCACTAA AGTTGTTAAG NTCNNCCGGT 180
GATAAGTACT TCAATTTCAA CTTGTAGNNT GGGGAAATTT AGAATTATGC AGNTTATGGA 240
ATTGTATATG ATGACATTG CAATAGGTCT ATTCTCTATC ATTGTAAGAA GNTGTGTGTA 300
CTGGTATTTG NCCCAAGTAA TAANCTAACT GAAA 334

SEQ ID NO:990

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01127

SEQUENCE DESCRIPTION:

GATCTGNCGT GCCCACCAC TGGTGATGGA AGGTTACAAG TGGCACTTCA ATGAGACGGT 60
GCTCACTGTG TGGTCGGCAC CCAACNACTG CTACCGCTGT GGGCGTGTGG CAGCCATCTT 120
GGAGCTGGAC GCGCATCTCC AGAAAGATTT CATCATCTTT NAGGCTGCTC CCAAAGAGAC 180
ACGGGGCATC CCCTCCAAGA AGCCCGTGGC CGACTACTTC CTGTGACCCC GCGCGGCCCC 240
TGCCNNTTNC AACCTTCTG GCCCTCGCAC CACTGTGACT CTGNCATCTT CCTNAGACGN 300
AGGNTGGGCG TGGGNGGGNN TGTNCTGGNT NTN 333

SEQ ID NO:991

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01128

SEQUENCE DESCRIPTION:

GATCGGACTG AACAGGAATC CTCGGGGGGT GAACAGCCAT TCCTTCGTGA CCTGTGCACG 60
NCTTCTGCAA CCCTGGAGCT CTGCTCGGCT AGTCTGACTC GAAAAGGGCG TGA CTCAAGC 120
TGACGGGACT CCAGTAGGGA CTTTGAGAGC ACATTTTGTA AAAATATTTA TCTAGACGCA 180
AATGCTTATC CATGAATGTC CTCTTAGACC ATTTGGGGAT GAAGCCATCT TAATAATTAG 240
TAATAATTAA TTAGTAATAA TTAGTAAGCA TTTTCTCAAT GCTCTGATTC CATCATGTTT 300
TCTTAACATG ATA ACTTAA AATTGAAA 329

SEQ ID NO:992

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01129

SEQUENCE DESCRIPTION:

GATCCTCCTC AGAAACTACC GGA CTGTGTTT TCTGTATTGG TGTGTTTTGT ATCTTGCTTG 60
AACTTCCTGT TCTTCTTGGT ATACTTTAAC ATTATNATNA TGTGGGATTC CAAAAGTGGA 120
AGAAATCAGA AGAAAATCAG CTAGCTGTAT TCCTAAACAA ATTGTTTCCT AAACAAATGT 180
GAAAATGTGA ACAGTGCTGA AAGGTTTTGT GAACTTTTTG CTATGTATAA NTGAAATTAC 240
CATTTTGAGA ACCATGGAAC CACAGGAAAG GAAATGGTGA AAAGTCATTG TTGTCTACAC 300
AAAATAAATG TATATGGAGA CCAAAGACCA AA 332

SEQ ID NO:993

LENGTH:330
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01130
SEQUENCE DESCRIPTION:
GATCAAGAAA TCAGGATGGC CATTTATTTA ATATCCATTC ATTTTCATGTT AGTGGGACTA 60
TTAACTTGTC ACCAAGCAGG ACTCTATTTC AAACAAAATT TAAAACTGTT TGTGGCCTAT 120
ATGTGTTTAA TCCTGGTTAA AGATAAAGCT TCATAATGCT GTTTTTATTC AACACATTAA 180
CCAGCTGTAA AACACAGACC TTTATCANGA GTNGGCAAAG TTTTCCAGGN TTCATATACA 240
GNTAGGCTAT NNGNCATGTA TTTTGAAACG CAGTGTTNCA TNATGAAAGN GCTCTCAAGT 300
NGCTTAAAG NTANTTTATT AAANGGGTNN 330

SEQ ID NO:994
LENGTH:330
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01131
SEQUENCE DESCRIPTION:
GATCCGGGCC TTGCGTGCAG CCTCCCAACC ATGGGCTGGG TTTNGTGCTT ACTGTATGTT 60
GGCGACTTGG NNAGGGCAGG AGACGCAGCG TGGAGCCTAC CTCCCGACAT TCACGCTTCG 120
CCCACGNTGC TCCGACTGGC TGCAGCGGAC ACTGCCCAAA GCAGAGGGGA GTCTCAGTGT 180
CCTGCNAGCC AGCCGAACAC TTCTCTCCGG AAGNAGGCTG GTTCGACTGT NAGGTGTTGA 240
CTAAACTGTT TCTCTGACTC GCCCANAGGT CGTGGCTAAA GGCACCTAGG CGNCTTAAAT 300
TTGTAAATAA AATGTTACTA CGGTTTTAAA 330

SEQ ID NO:995
LENGTH:338
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01132
SEQUENCE DESCRIPTION:
GATCTGAATG ATGATGGAAG CATGCAGACA GCCTCTCAGT CTTACTATTT AATGTTGTAG 60
CTGGGAAAAA ACCCAGAGAG GTTAACTGAT ATACTGGGTT GGGACTAGGA TGTGGGTTTT 120
GTNACTCTNA ATCCCATGTC CTCAAACATAC GCTGCCTTCC GAAGTCTGGC ATTTGTNAGC 180
TCATGCTTCC TTGTAGTCCA GCTTCTTATG TGCCTGTAAT ATTCTCCAGT ANGATTGTAA 240
GCCCCTTAAG GGCAGGGACG TCTTTNCATC TCTAGCACTG CTATAGTGTT CTATCCTTAG 300
TTATGGACCT AGATAAATAA NTNGGTGGTG GCAACAAA 338

SEQ ID NO:996
LENGTH:328
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01133
SEQUENCE DESCRIPTION:
GATCTTTATA TTTNATACTC TAAANTCGTA CAAGCCAATC TNCATTTTCA CTAGTGAAAA 60

CTGTATAGCT GGTATCTTT CCAGGACCCT TTTATCAAGA AACAATGCAG CTTCTACATT 120
 TGTNCTGCTT CTACACCAAA ACAGCTGGAA TGTATATNGT ATGGTTCTGG ATGCTCTTGT 180
 ATACCTNACT CTTCAATTTCT NACCTAACCC ATGTGCTATG ATTTGAATGT TTCTCCCCTG 240
 CAAAACATCAT GTTGAAATGT AATTGCCATG NTAACAGTAT TANTAGGTGG NNTATTTNAG 300
 NGGTGNTTAG GGTGGGATTG GTGNTGTN 328

SEQ ID NO:997

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01134

SEQUENCE DESCRIPTION:

GATCTTGTGT CTTAGAGAAG CCCCCATACC TGGTAGAGCA TGTACCATCT TACATGCTTA 60
 AATAACTCCA CATTTATTTG TGTATTATNAC TCTGTGTTAT AAATATACAT TTGTNGGTCT 120
 CTCTCTTGGA TTATTTTGTT TCTTTGTCCT GTAACACCA CTGAAAGGGT GCAATACAGC 180
 TTTCTTGAAA TGTGTATTGA ACGGATGAAT GTATAAATAA AANTTAAATT TTGTAAATTT 240
 CTGCTTATNC TTAGAAAAAG AATCTAAATN GTGACAAATC AGAATTGAAA AANGTATTCT 300
 AATAAAGANA AACANGCTTT TATAAA 326

SEQ ID NO:998

LENGTH:325

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01135

SEQUENCE DESCRIPTION:

GATCCCCAGT GTTGGAGGTG GGACCTAAGT GGCAGGTGTT TGGGNCATGG GGATGGATTC 60
 CTCACAAACG GCTCGGTGGC CTCCCTGCAG TAACGAGTGA GTTCACACAC TATTAGCTCA 120
 CATGAAACCT GGTTATTAAA GAGTCTGGGA CCTCCCTCCA TGCTCTCTCT CTTGCTCCTT 180
 TCTCTACCA CATCACACGT GGCTCCCCTT GCCTTCTGCC ATGAGTGAAA GCTTCCTGAG 240
 GGCCTACCA GACACAGATG CTGGTGTGAT GCTTTTTGTA CAGTCTGCAG AACCCCGAGT 300
 CAAATAAACC TCTTTTCTTT ATAAA 325

SEQ ID NO:999

LENGTH:322

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01136

SEQUENCE DESCRIPTION:

GATCACTTTC AATTGAAGTC AGGGTATTGT GCATAATAGA AAGTATTGGA CTGAGATATT 60
 TGGTTACCAT GGAGGCCAAT GCTTTTTTCA TCTTATTAAA TGTGATGTGA CTTTTNCTT 120
 TGTACAGAAG AGTACTGTAT TTTTGAATAG CCTACTCCCA AGTAAGAGCA AATCTGTATG 180
 ATAACATTTT TNCCNCTGGA CATAAGACAT AACAGTAACA CGATGTACAT TTACAAGCGG 240
 CCTTATGTAC ATTTCCCAAC ANTCTTTTAA AGGCAAAATT GTGACCATAT GTGTATAATT 300
 AAAATCGTTT TTAATCCNTA AA 322

SEQ ID NO:1000

LENGTH:322

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01137

SEQUENCE DESCRIPTION:

GATCTTAGAA ACCTCTGCAC AGAAGCTGCT TTGCTGGCTC TGCAAGAAAA TGGACTAGAC 60
GCAACTACAG TNAACAAGA GCACTTTCTA AAATCACTTA AGACTGTAAA ACCGTCGTTA 120
AGTTGCAAGG ACTTGGCTTT ATATGAAANC TTATTTAAGA AAGANGGATT TTCTAACGTG 180
GAAGGTATTT AAAANTCACC TTAACTCTT GTNCAGTTCA CATTAAATTGA AATGTGAACT 240
TGCCTGTCGT TTGCAACTTC ACACTTTTAG AATTTGTGTT TATATTCCT GTANGTGAAT 300
AAATANANCA NNNCAGNNCA AA 322

SEQ ID NO:1001

LENGTH:353

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01138

SEQUENCE DESCRIPTION:

GATCTCAGAA CAACCTTTCT TGTTAGTAAC ATATTTTGG CAATACATAN CAACCTGGGC 60
CTGGTGGATA ACCACAAGA TGGGGAAGAA AAGNATTGAG AACTTTAAGA GTGGTGTGGA 120
TGCAGACTCT TCTTATTNA AAATCTTTAA GACAAAACAT GACTGAAAAG AGCACCTGTA 180
CTTTTCAAGC CACTGGAGGG AGAATGGAA AACATGAAA CAGCAATCTT CTTATGCTTC 240
TGAATAATCA AAGACTAATT TGTGATTTA CTTTTAATA GATATGACTT TGCTTCCAAC 300
ATGGAATGAA ATAAAAATA AATAATAAAA GATTGCCATG GANTCTTGC AAA 353

SEQ ID NO:1002

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01139

SEQUENCE DESCRIPTION:

GATCTGACCT GGTGAGATTA TTTCTGATGA CCTCATCAA AAATAAACAA TTCCCAATGT 60
TCCAGGTGAG GGCTTTGAAA GGCCTTCCAA ACAGCTCCGT CGCCCTAGC AACTCCACCA 120
TTGGGCACTG CCATGCAGAG ACGTGGCTGG CCCAGAATGG CCTGTTGCCA TAGCAACTGG 180
AGGCGATGGG GCAGTNAACA GANTAACAAC AGCAACAATG CCTTGCAGG CAGCCTGCTC 240
CCCTGAGCGC TGGGCTGGTN ATGGCCGTTG GACTCTGTNA GATGGAGAGC CAATCTNACA 300
TTCANGTNTT CACCAACCNN 320

SEQ ID NO:1003

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01140

SEQUENCE DESCRIPTION:

00553

GATCCTNCNA GTTAGCCTAG TACTGCTGTA CTGGCCTGTA TGTACATGGG GTCCTTCAAC 60
 TGAGGCCTTG CAAGTNAAGC TGGCTGTGCC ATGTTTGTAG ATGGGGCAGA GNCATCTAGA 120
 ACAATGGGAA ACTTAGCTAT TTATATTAGG TACAGCTATT AAAACAAGGT AGGAATGAGG 180
 CTAGACCTTT AACTTCCCTA AGGCATACTT TTCTAGCTAC CTTCTGCCCT GTGTCTGGCA 240
 CCTACATCCT TGATGATTGT CCTCTTACCC ATTCTGGAAT TTTTTTTTN GNNGATANNT 300
 ACAGAAAGCA TTTTGAAG 318

SEQ ID NO:1004

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01141

SEQUENCE DESCRIPTION:

GATCTTTCTG TCTTCTGGGT TCCATTTTTN AAATGTTTAA AAATATGTTG ACATGGTAGT 60
 TCAGTTCTTA ACCAATGACT TGGGGATGAT GCAAACAATT ACTGTCGTTG GGATTTAGAG 120
 TGTATTAGTC ACGCATGTAT GGGGAAGTAG TCTCGGGTAT GCTGTTGTGA AATTGAAACT 180
 GTAAAAGTAG ATGGTTGAAA GTACTGGTAT TGTTGCTCTG TATGGTAAGA NCTAATTCTG 240
 TNNGCCCATG GTNCATAATT NCCTATNCAC CTTNCCTNCC CCTTNCAGC CCAATTAAAG 300
 GTTGGGGTCN TAACCTCAAA 320

SEQ ID NO:1005

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01142

SEQUENCE DESCRIPTION:

GATCTGGGGG CTCGAGACTC TGAAGGCAGG GACCCTCTGA CCATCGCCAT GGAAACAGCC 60
 AACGCTGACA TCGTCAACCCT GCTACGACTG GCAAAGATGA GGGAGGCTGA AGCGGCCAG 120
 GGGCAGGCAG GAGATGAGAC GTATCTTGAC ATCTTCCGCG ACTTCTCCCT CATGGCGTCA 180
 GACGACCCGG AGAAGCTGAG CCGTCGNAGT CATGACCTCC ACACGCTGTN ACCGAGGCC 240
 CACGGGGCCG CGCCTGCNTC CCTTCCCCGN NACCGNGCNN TCTGCCATTA AAGCCTCCGT 300
 GCTTCGNTCT TCAAA 315

SEQ ID NO:1006

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01143

SEQUENCE DESCRIPTION:

GATCCCTTGC NTGCCCTCC CTGTGGCAGG GCTAACTGCC TGGCCCTCCT GGCTCGCAGC 60
 CAGCCAGNCC CCTGGCAGCA GGTTCCTCTC AGGGCTTGGN TCTTCAACCT GTGGCGACAG 120
 GAGGCAGGGC AGACTGTGGA GGACAGGATG CAGGTCAGGG AGAGGGAAGG CAGGGGTGGA 180
 CCGCCATGAG CATGAAAAGC CCGAAGCAAG TTGACTCTTN AATTTGCAAC TGTTATGNTC 240
 TGAAAATGAG AACGATGTAT CAANTTGATG CANTTTNGAT GTTGTACTTA CAATAANGTT 300
 TTAATGTGTN TTAAA 315

SEQ ID NO:1007

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01144

SEQUENCE DESCRIPTION:

GATCTGAGGN CAGGANTTAA ACCACAGAAT GTATNTGCCT GTAAAGCACA GGGGAAGAAA 60
CGACTCATT GAACACACC TGTTACATAC CATTCCGTAA ATGNTTTAAG NGGGGAATGG 120
TGTGACAAAC CTTCAAAAAA NATGAACACC TTAATGTTCA GGACTGAAGC TAACTCCCTA 180
TGNTTAGGCA CAGCTTGATA CGAGCGGAGA CTTGGCAGTC AATTCCANGT CTTTATACT 240
NATTACCTCA TCGTNACTGT NAGTGCAACT ATAGTCTGTT GTNGGAATT GGNCATCCCT 300
TAGTNTCNGA TGGTN 315

SEQ ID NO:1008

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01145

SEQUENCE DESCRIPTION:

GATCAGAAAA AACAGAAGCC AAACCTCGGGG TCATCTTTGT TTTTAAAGCT GAAGTGGGAC 60
TGTCTGGCAC TCTGTGTATT TATGCGTTCC AGCATCTGGA ACCTCCCATC CCTGCCCTCC 120
TCCTGTGTAG CTGCCACCTC CCCGCTGGGC CCAGCATGGC TCACCTGTCC CGTGGGGTGT 180
GTTTCTTGTT GTTTTCTCT TTGCAAAGAC ATAGCTAGGA AAGCGAATGA TAAGGGAAAA 240
GTTCTCAGGG AATTGAAAGT TTGTTGCTAT GGTGACGTCC TTTTGCTGTG AATAAAGGTG 300
CTCTTTGCAG CAAA 314

SEQ ID NO:1009

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01147

SEQUENCE DESCRIPTION:

GATCCACAAT AGTGGCATGA GGCAGGCGAC TGTNTGTNAC CTCTATGTCC GCAGAGTCCA 60
GCACGCTAAC AGCTGGGAGA TAAAAGCAGT GGAGAGGGCT GTTGGGGGAC ATGCCATGGA 120
AACTACCTAG GACCTGTTCC CTGAGTTAAC ATTCTAGCCT CATCTACTTG TTTGCCCT 180
GCAGCTCATA TACANACTGG CCCACCATTT ACGNACCATC CCCTCAAGTA ATCTTAAAGG 240
TTCTCAGCCC ANACANATTA ACTGTTCTGA CCCCACCTNC TTAATAAACA ATCCTGGGNT 300
CAGCCATNTG AAA 313

SEQ ID NO:1010

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01148

SEQUENCE DESCRIPTION:

GATCTGGCAG TTGAAAATTG TGGGAAAGAG AATTTGTATG GGCACGTAT CTATGAAATA 60
 CCTCATAACT TACGTTTACA TGTTCCTA ACTTTTNGTA TTTTCNTNGT ATAGCCACCT 120
 AGAGAATTCT TCATAGATTA AGAACTACAG TTTTNACCAC TTAACATAAG TAAAACAAAG 180
 TCCTTCATAA TTNAACCATT AGCATCTTTG GCCAAACCAA AATAAAGANA AGCATCTNCT 240
 CCTAGTTGTG TGTGGGCAAC AGANACANGT TAAGGNAACA NAAATACTTA TATATACACN 300
 GANCANANGT N 311

SEQ ID NO:1011

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01149

SEQUENCE DESCRIPTION:

GATCTCCCTT GGTCTTCCAT GGGATGGTTA GTGTGGAGGG GAGATATAGA TTGTCCGGCC 60
 GNTTTGTGAT TCCATGGGAT TGATTGAGTC TTCTGGATT TTTTNTCTGT ATATTNNGG 120
 TACTGGAGCT TTTAAAAATG CTTGGNTTCA GGTATTTTNA TTCATGTGAA GTGTATATGA 180
 TTCTNTTGAG ATAAGGTTTT AAGCTAAAAT GTNACTCCCT GNTTNAGCNT CTGAACCCTG 240
 ACAGATTNAC AGGGACTTTG CTGGTGTAGG CTTTTTAAAG GGNTTANTAN TCCACTTTGA 300
 GCCTNAAA 308

SEQ ID NO:1012

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01150

SEQUENCE DESCRIPTION:

GATCTGGAGT TACCTGAGGC CATAGCTGCC CTATTCACCT CTAAGGGCCC TGTTTTGAGA 60
 TTGTTTGTTT TAATTTATTT TAAGCTAGGT AAGGCTGGGG GGAGGGTGGG GCCGTGGTCC 120
 CCTCAGCCTC CATGGGGAGG GAAGAAGGGG GAGCTCTTT TTNACGTTGA TTTTNTTTT 180
 TCTACTCTGT TTTCCCTTTN TCCTTCCGNT CCATTGTTGGG CCCNGGGGGT TTCAGTCATC 240
 TCCCCATNTG GNCCCCGGGA CTGTCTTNGT TGATTCTAAC TNGGNNNGGA AAGAAANTAT 300
 TATTCAAA 308

SEQ ID NO:1013

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01151

SEQUENCE DESCRIPTION:

GATCCATGGG GCCGCAATGA AGCTTGGAGA TACATGGGTG GCTTTGCAAA GAGTGTTTCC 60
 TTTTCTGATG TATTCCTTAA AGGATTCAAA TGGGGATTG CTGCATTTGT GGTAGCTGTA 120
 GGAGCTGAAT ATTACCTGGA GTCCCTGAAT AAAGATAAGA AGCATCACTG AAGATAATAC 180
 CTGGAAGCAT CATAGTGGTT TCTTAACTCT CCAAATAAG ATTTCTTCTC TGTAGCCTAC 240
 TTGTCTGGTT TATCCCTTAC AGAATATTAG TAAGATTAA TCAATTAAAA TATATATATA 300

TGCCAAA

307

SEQ ID NO:1014

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01152

SEQUENCE DESCRIPTION:

GATCGGTCCA CGAAAGTTAG CCCATATGTA TATCTTGAAT AGTATAGGGG AGGGTATTCA 60
TAAAGTCCTT ATGTGGTTTT AACTAAGTGA AATTATGGAC AAGAGAANN NTGTAAAAT 120
CGTCTTAAAG GCAAATTTAA TTTTNACTCC TGTTTATGGG ACATTTCGTC TATTAAGTGT 180
CAGACACAAT TTCTGTTTTC ATCTGAGAGC CAGTTTTCTT TTATTTCTAC ATCTAAAATA 240
AGANCATATT GTACACTATT ATATAATACA GAATTGTCTT AAACCTTAAT AAATTCGCAT 300
TTTAAA 306

SEQ ID NO:1015

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01153

SEQUENCE DESCRIPTION:

GATCTCAGCA GTGGGGCAGG AGGGTGCCTG ATTTCCGGGA GTCCTGACCC GAGCCTGTTG 60
TCAGAGTTGG GAGGGGCTCT GAGCAGTGTT GGGCAGGCCG GGTCTCCCAT CCCGAGGCCA 120
GCGTTCCTGT GCAGAGCCCC ATCCACTGGT TCTTGCCCTG AGCCACATAT GTCTGTNCCA 180
TGGGCTGAGT GCCACGACAG GCGCGTGTGA CAGCTGCTGC CCACGCATNT NGAAGCTAGG 240
TGGGACTCAT TCCTAATTCT GCCGTTGTAA TGAGACTTGA TTAAACACC GCCACTTTTT 300
TGCAAA 306

SEQ ID NO:1016

LENGTH:304

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01154

SEQUENCE DESCRIPTION:

GATCAACAAG AAATGTTATG AAATGGCCTC CCACCTTCGG CGTTCCTCAGT ACTGACCTCG 60
TCTGTCCCTT CCCCTTCACC GCTCCCCACA GCTTTGCACC CCTTCTCTCC CCATACACAC 120
ACAAACCAAT TTATTTTTTG GGCCATTACC CCATACCCCT TATTGCTGCC AAAACCACAT 180
GGGCTGGGGG CCAGGGCTGG ATGGACAGAC ACCTCCCNNT ACCNATATCC CTCCCGTGTG 240
TGTTTGAAA ACTTTGTTT TTTGGGGTTT TTTTTTCTG AATAAAAAAG ATTCTACTAA 300
CAAA 304

SEQ ID NO:1017

LENGTH:304

TYPE:nucleic acid

TOPOLOGY:linear

00557

CLONE:HUMGS01155

SEQUENCE DESCRIPTION:

GATCTAAAGC AGGTNGTGTGTT GTTTACATGT TTCTACACAT TTCATCCTTT AAAAAGTTGT 60
TGAGAGAGGT TGTATTTACC TTCCCAAGGT TGGAAAGCAG GGAATTTC CAGTGTCTTA 120
GTTTTCCACC AGAGGAATAT GTGTAAGTAG CAAAGTATTT GCTGCTTACA TATAGTGTGT 180
ATGTATGTAT ATATGTAAAT NGTGTGTAA AGAGCTGATA CTGATTTTCA TATGNCAATG 240
TTAAGGCAA GGCCTCCCTG CATTTGANGA GCAGGTNTTC ATTTATATGT ATTTTNGGGA 300
TAAA 304

SEQ ID NO:1018

LENGTH:304

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01156

SEQUENCE DESCRIPTION:

GATCAGAAAT NAAGTGCAGC AATATCATGA ATTCTNAGAA GNCTTTAAGG GAGCCAGTNA 60
GTCATACAGT ATCCACAGTT GANTCACTTA AAGATGTCAG TATACGAACA TTATTCACAA 120
TCCTTGGGCA ATCTCATTTT TTTCCCTTC TCCCCTCCTC CCCTGCCCCC ATACATTTNT 180
ATCCTTAANG TAGTTTTGGA GGGGCAGGAT GACTTAACA TCTCANAAGC TAGATTGGGA 240
ACATNTCANT ATAAGACTGA GTTTAAATTT ANGGTAAAA TGNCATCAGA ANANTTGGGN 300
GGGN 304

SEQ ID NO:1019

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01157

SEQUENCE DESCRIPTION:

GATCTAATAC TACTGTCAGT TTAAATGTGC ACTGTGTTTT ATACAGTATC TTTTTTGT 60
CACTTNGGAA ATTTTACTA AAAATTGCAA AAAATAAAGT ATTGTGCAA GATGTAAGGN 120
TTTTTGANAC TTGNNGTGCA TTAATAANTA GACGATTAAN TCAAGGAAA 169

SEQ ID NO:1020

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01158

SEQUENCE DESCRIPTION:

GATCCTCTAC CACAGACATT AATAGCTGAG CAGGAGCCAC ATGGATTGAT TGTATCCACT 60
CACCATTGAC GATGGCATTG AGCGTANTAG CTTATTTCCA TCACTACGTG TTTTGTAGCT 120
TGCTCTTACG TTTTAAGAGG TGCCAGGGGT ACATTTTTGC ACTGAAATCT AAAGATGTTT 180
TAAAAACAC TTTTCACAAA AATAGTCCTT TGTCATTACA TTATTTACTC ATGTGTTTGT 240
ACATTTTTGT ATGTTAATTT ATGAATGATT TTTTCAGTAA AAAATACATA TTCAAGAACC 300
AAA 303

SEQ ID NO:1021

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01159

SEQUENCE DESCRIPTION:

GATCCTTNGG CTCAGAATCT CGAGAACCGC CTGCTCCTAA CAATTCAGCA AGTCAGGGGC 60
TTCCTCTCTG TTAGTCCCCA AATCCTTACT TATTTTAAAA AGACTAGACC CTCTCTAAAG 120
ACTGTTCCAT TTAAACATGT CCTGATTCTG CATCCGTGGG TTTTGTGAAA GAGAGCTAGC 180
TGGCGGTTAG AGCCTGGAAG AAGGAGGGAA GTGGCACCTC ACTAGCATTT ATCACTTTT 240
TCCTTCTCTT TTAAAAATA AAACCAGACT CTGTTCTGAA AATAAAAAAC TTGAGACTTG 300
AAA 303

SEQ ID NO:1022

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01160

SEQUENCE DESCRIPTION:

GATCTGNCTT ATCCGAGCTT GTTATTGGGG AGCCATAAGA GTCAGTTATC CAGAACACAG 60
TTTTGCATAA GCTTGTTTAT GATTCAGTAA TGCAGGTGAG AGTGTCTAGC AGTTCTTGGT 120
AAGCTACTCT GGACATCTTT AAATTATTTA TCCTAATGGA TTCCATTCTG GTTTATGTAT 180
AATCGTTTCA AGACTTTGGG AGTCTTTTAT GAACAAATGC TCATTGCACT ATATTATATG 240
CAAATTGTNN NGCTGCTAGG TTTTCAAAAT TTGAATAATA AAGCCTTTTC ATGTTCTTTT 300
AAA 303

SEQ ID NO:1023

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01161

SEQUENCE DESCRIPTION:

GATCAAAATC CTGTACAATA CTATAAATAT ATATTNATNT TTTCACAGTC ACCAAGTGTA 60
TTGTAATGTA TACTTGAAAA ATGTTATAAC TTATGAAGTA AAGTTTCTNA TAGTAGTCTT 120
TAAAAGATAT AAGACTTAAT ATGTTTTATT CAGCTTCTAT AAGTGTGACC AGTTTTNATA 180
TTTATTTATG CTAATATTTT TAACAAGTCA TTTCAAAATA TGTGTATCTC AAATCCTCCC 240
NAAAGTGTTG TGGCCTTAAC TGTTCAGTAT TGCAATAAAA NATATATNTN NNTATGTGGT 300
AAA 303

SEQ ID NO:1024

LENGTH:302

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01162

SEQUENCE DESCRIPTION:

GATCTATGGA AAACTGGGAA TGTAATGTAG GATTCTGTCA GAGCTCCTAC AGAGCACAGT 60
 TGCCTTTAGT TTCCTTTAAA GATGTAAAAA TATTGTATAA TACAGTTTTG TCCCTACACA 120
 ATTGTATTTG CCAAGCTTAG TGCATTATGA TACCTTTATT TATTTGTTTT GGGCAGTATT 180
 ACTATATATA TATAANCATA CAGTTACTGT TTTATATATT CTTAGGTCAT TCAAAGCCAT 240
 GTATGCTGTA AATGTGCTAG TCTTTAGAAT GACACATAAT AAATAACTGA CAAGATATTA 300
 AA 302

SEQ ID NO:1025

LENGTH:435

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01163

SEQUENCE DESCRIPTION:

GATCGAGCCA TTGAAAGCTC ATTACCAGTA GGACATAATT TTTGGCTCTC CCTATTCACA 60
 ACCAGTGCAC AGTTTGACAC AGTGGCCTCA GGTTCACAGT GCACCATGTC ACTGTGCTAT 120
 CCTACGAAAT CATTTGTTTC TAAGTTGTGT TTATTCCTGG AGTGACATGC CACCCCGAAT 180
 GGCTCACTTT CACTGAGGAT GCTGTCCTCT GATTTAGCTG CTGCCTCCAG CCTCTGGCTT 240
 GAGAACTTAC TAAAGGCACT TCCTTCCTGT TAAACCCCTG TTAACCTCTCC ATAAATTTGG 300
 TGATTCTCTG CTAGGCCTAA GATTTTGAGT TAACATCTCT TGAAGCCAAA CTCCACCTTC 360
 TGTGCTTTTT TGCTTGGGGA TAATGGAGTT TTTTCTTTTA GGAAACCAGT GCCAAGGAAT 420
 GNCAAAGGTN TTAAA 435

SEQ ID NO:1026

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01164

SEQUENCE DESCRIPTION:

GATCCACATC CTCTACAGGT CGGGGACCAA AGGCTGATTC TTGGAGATT AACACCCAC 60
 AGGCAATGGG TTTATAGACA TTATGTGAGT TTCCTGCTAT ATTAACATCA TCTTAGACTT 120
 TGCAAGCAGA GAGTCGTGGA ATCAAATCTG TGCTCTTTCA TTTGCTAAGT GTATGATGTC 180
 ACACAAGCTC CTTAACCTTC CATGTCCTCA TTTNCTTCTC TGTGAAGTAG GTATAAGAAG 240
 TCCTATCTCA TAGGGATGCT GTGAGCATTA AATAAAGGTA CACATGGAAA ACACCAA 298

SEQ ID NO:1027

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01165

SEQUENCE DESCRIPTION:

GATCCACTTT GTTGGTTGTT GTTGCAGAAG ACTGAACTGT TTTGGAATAN TTAACAATTA 60
 CAGAAACAGT CAAGTGTTTT CCAATGTGGT TGTCCGGTTT CTATGGCCTT GCTGTGTAAT 120
 TTCCCTCTTT TTGACAGTAA ACTTCTGCCT ATGGCTTACA GTTTGACATT TAATTTATTA 180
 GCGCTGCTCT GCACCCCTNC CTTGGGAGGG AGACTTCATG TGGTTTATTG CGAGTTTTTT 240
 TGTTTACTTT TCAGGGTTNG TACCTACAAA GGTTTTAATA ATAAAAANCA AAGNTTTTTT 300

NGGCNATTNG TCTTGTCTTN GTGGGAAA

328

SEQ ID NO:1028

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01167

SEQUENCE DESCRIPTION:

GATCTACAGT GCTGATGAGA AGAGAGCCCT TGCATCCTTT AACCAAGAAG AGAGACGAAA 60
GAGAGAGAAC AAGATTCTGG CCAGTTTTCG AGAAATGGTT TACAGAAAGA CCAAAGGGAA 120
GGATGACAAA TAAAGATTTT NTGATTGTCC AGAAGACATT TTAAACAACA AAAAAGAAAG 180
TCTGGGTTCC ACACATACAT AGAAAAAGAT TATTATGTTT TGAGAAAGCT TTACAGTGCT 240
ACTGTGCCCT CTATTTAATT CTTTCAGTCC TTCAATAAAA AGCTGCTTAT TGATAAA 297

SEQ ID NO:1029

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01168

SEQUENCE DESCRIPTION:

GATCCTGCTG AAATACATCT GCAGCTGACA ATGAGAGAAG AAACAGAAAA TGTCATGTGA 60
TGTCTCTCCC CAAAGTCATC ATGGGTTTGT GATTTGTTTT GAATATTTTT TNCTTTTTTC 120
CTTTTCCCTC CTTTATGACC TTTGGGACAT TGGAATACC CAGCCAACTC TCCACCATCA 180
ATGTAACCTC ATGGACATTG CTGCTCTTGG TGGTGTATC TAATTTTTGT GATAGGGAAA 240
CAAATTCCTT TGAATAAAAA TAAATAACAA AACAATAAAA GTTTATTGAG CCACAAA 297

SEQ ID NO:1030

LENGTH:296

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01169

SEQUENCE DESCRIPTION:

GATCCAGAAC ATGGGAAGTT AGGGAAAATG TGTGATTTTG TGTTTTGAAT TACTGTCAGA 60
ATTACATACA CAATTACAAC AAACTTTTTT TAAAAGACAT TTCATTGTAC TGCAAAAATC 120
TGAATATTTA TATTTCTNGT TTTTCTCTTT ATATGTTTTG CATTTTANTA TGTTGAGCCA 180
CTGGAATAAT TGTAACAGNT TANTTTGTTA TNGGCGTTA ANTGTGTTGT CATTGNCTCC 240
ATTGTCTTTG TCCAGAGCCT ATTATTATGG AACCAATAAA NTTAATGGG GTCAAA 296

SEQ ID NO:1031

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01170

SEQUENCE DESCRIPTION:

GATCCTAGTC CCCTGCCCTC TGGCACAGCT GCTTCCTGCA AGANAGCAAG TTTTGGTCT 60

00561

CCCTGAGAAG CCATGTCCCT CGTNCTGTNT CTTGCCTGTC CCACCTGTGC CCTGCCCTCC 120
 AGCTTGTATT TAAGTCCCTG GGCTGCCCCC TTGGGGTGCC CCCNGCTCCC AGGTTCCCCT 180
 CTGGTGTNAT GTCAGGCATT TNGCAAGGAA AAGCCACTTG GGGAAAGATG GAAAAGGACA 240
 AAAAAAATTA ATAAATTTCC ATTGGCCCTC GGGTGAGCTG AGGGTTTTTG CAAA 294

SEQ ID NO:1032

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01171

SEQUENCE DESCRIPTION:

GATCTTCAAG AAGTGAAAGA GACCGAAAAT CAGACAGGAA AGACAAAAGG CGTTAATGGA 60
 AGAAGCCAGG CTTTCTTAGC CATTCTTTC AGCAGAAGAT TTCTTGATAA AAAAGGATTA 120
 CCTTTCCTTG TAAAGAGGAT GCTGCCTTAA GANTTGCATG TNGTAAAANN NCTTTTGGGA 180
 AAATACAGAC TGTTTGTTTA CCAGACATTC TNGTACTGNT NGCATAATNN GGTAAGAGTT 240
 ATTNATCAAA ATNATGTGAG GTTCCTAAAAT ATGTAAAANT GATATNATAA AAN 293

SEQ ID NO:1033

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01172

SEQUENCE DESCRIPTION:

GATCAGCGGT TCTTTTTGCA GCAAAGCCTG CATCTGTGTT GACTTGCAAG ATTTTGC GTT 60
 TATTCAGGCA AAAACTGGTC AAAATGGTTA CTACATGATT TGTTCCAGG GGTTTGAAAC 120
 ATTCAGTGAA ACTTTTTTAAA ACTTTGATTG CATGATGTAT TTTTTTTTNA GAAAGTTATT 180
 GTTTGAGAAT AATGTCTTTT TATACCAGGA AAATAGTTAT CCNGAATGAC GTTGAAACT 240
 CCCCCTCCCC TTNATTTTTN TTTAATCANT ACATGTGAAA GTNNCCANGC AAA 293

SEQ ID NO:1034

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01173

SEQUENCE DESCRIPTION:

GATCCCAATT CCACATAAGC ACTTTTGGAA GAAAACAGCC AAAGTTGGCC TAAAATTGGC 60
 GCTGGAATTT GGNCTGGGAA AAATCTTGTG GTTATTTTCT TAAAAAGGA AAAAACTTT 120
 AGTATTTAAT TAGTTGATTT ATTTAATGTA ATTNCAAACA ATTAAATTAT GAATAATGCA 180
 ATGTACAGTA GAATCACGTT TTGATTTTAT TAACACTGAC CAAGTTTAAAC TCCATATGAN 240
 GTGTAAGCTT GATATCGTTT ATGATGTCTA TCAACTGTAC CAAAAGTAAA ACATTTAAAA 300
 NCANNAAA 308

SEQ ID NO:1035

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01174

SEQUENCE DESCRIPTION:

GATCTCAAGT GACCCGCTG TCTCGACCTC CCAAAGTGCT ATGATTACAG GCATGAGCCA 60
CTGCACCCAG CCAAACATGA CTTTCCATC CAGAGTAAAT CCAACTAACA AGAATCCACC 120
CTTGGAGTTC ATGTAAAAAT ACATGACACA GGGTGATGAA AGTGCTTTGA AACTAGATAC 180
AGGCAGTGGT TCTATAGCAT GGTGAATGTA CTCAAGGCAA CTTCTTTACT TAAAAATCGT 240
TAATTTTATG CCATGTGAAT TGCATCTCAA TAAAAATTGT TTTCATTTTA AA 292

SEQ ID NO:1036

LENGTH:363

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01175

SEQUENCE DESCRIPTION:

GATCGGGAAC TCCTGCTTCT CCTTGCCTCG AAATGGACCC CAACTGCTCC TGCTCGCCTG 60
TTGGCTCCTG TGCCTGTGCC GGCTCCTGCA AATGCAAAGA GTGCAAATGC ACCTCCTGCA 120
AGAAGAGCTG CTGCTCCTGC TGCCCTGTGG GTGTGCAAGT GTGCCCAGGG CTGCATCTGC 180
AAAGGGACGT CAGACAAGTG CAGCTGCTGT GCCTGATGCA GGACAGCTGT GCTCTCAGAT 240
GTAAATAGAG CAACCTATAT AAACCTGGAT TTTTTTTTTT TTTTTTTTNN AAAANCCCTG 300
NCCNNTTGT AAAATTTTTT TTTNNNTGAA ATANGNAANG GNAATAATTN ATCNGGNNTN 360
TTN 363

SEQ ID NO:1037

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01176

SEQUENCE DESCRIPTION:

GATCTTGGAAG AGCACTAGAA ACTAAACATC TTCACCAGGT GCTGAAGAAA AGTGTCTTCG 60
TTTTAATTGC CAAGCAGGGA TGTGGACATT TGGATGGTGA CTTTCCTGGG TGGTTCCCCA 120
TAGATTCACC ATTGCCTCTA ATGGTGTCTA CACCCGTCAT ACTACCAGCT GAGATGGTGG 180
TGGGCATAAG GAGAATTTGT GCCTATAACC CTTAGTGTGT TCTGGTTTTT TTTCTTTTAA 240
TTTTTAAATT GTCGTAAAAT ACTCATAAAA CATACTGTCT TCACCAA 288

SEQ ID NO:1038

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01177

SEQUENCE DESCRIPTION:

GATCACCTTG TAGTCTTTAA ATTCTTGGTC CCTGAGGCCA AGTCCACAAC TTGCCTTCTA 60
GTCACTTGCC TGCCCGCAGT GGTGGTGGAT GTGTTAGCTG GTAGATTTGG AATCAGTCAC 120
CAGTCTTTCT GTACTGTCTT GGTTAGCTCT ATATAAGTAG GGGCAGCTTA GCCCTGAGGC 180
CCAGAGACCT GCTGTCCTTT TTCTCCTTGA GGGAGGAAAT AAAACTGCCG AATACAATGT 240

CCTTCATAG CATGGGAAGA AGAAAATAAA CATCTCCTTT CCAACAAA

288

SEQ ID NO:1039

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01178

SEQUENCE DESCRIPTION:

GATCCACCCT CCTGTAAATA TGGAACAAAT ATCTGAATGA AATCCACCCT AGGAGACGGA 60
GCAAACTAAA CTTGTGGTTT TNCATTTAAC TTTTGACTAC AGCATGGCCC CATGGCATCC 120
ACACCAAGAG GGTGTTGTGA TGAGGTGCCG GTGTGCAAAG GGAACTTTAG TTTTCCACT 180
GGTTCCTATC TGCTAGCCTT TTACATACAT GTGTACTATA TTTGTTTATA GACTGTAGGT 240
GGATATATAA TTAAAGCT TGATTTAATA AACATTTAAC CCCNTAAA 288

SEQ ID NO:1040

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01179

SEQUENCE DESCRIPTION:

GATCTCAAG TATTTGCNAC TTTGAGTAC AGCTAATTGG ATAATCTCAA ACCCTTTAGT 60
GAAAATATCT TAAATGCATT GAGAATATTT CCTAATTACC TGTGTATGCT ACAGTACAGA 120
CATTAAATCT ATAAACATGT TCATAGGTCT TCCCCCTCGC CCCGNCCTGC TTCTAAGGGC 180
ATTCCTGTT TCTNTNAGT GAGTTCATGN ATGTTTACCG GTTCTGGCGN AANGTTTCTT 240
GCATNCTGAG CATAAAAATA NTAACCNA CTGATANTTG CTTGAAA 287

SEQ ID NO:1041

LENGTH:289

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01180

SEQUENCE DESCRIPTION:

GATCTGCACA CGCATAATAA TCAGCATTGA GGGCAACAAA ATGCCATTGT GACCTTGCCT 60
GGAATGTGTC CCCATCTCTA CTCTAAGAAA TGCGCAATGG ACTCTTTGGA GAAAGAAGAT 120
ATTTTAAAC ATTTTGTAGT TGTCTGTAAA TGGTTCAGCG TGTATCAGAT GTTGTATAG 180
GACTCACATT TCTCTCAGTT ATATTTAAAA CCGTTGTGTA CTTTGTACAA NGGAATACTA 240
GTCATACTTC TATAAACTTT NCACAATAAA ATTNTCATTG TGGGTAAA 289

SEQ ID NO:1042

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01181

SEQUENCE DESCRIPTION:

GATCGACCA CTGCACTCCA GCCTGGGNAA CACAGTGAGA CCCTCTCTCA AAATAAATAC 60

00564

AGNCAGGCAT AGTGGCTCAT GCCTGTAATC CCNGCATTTC GGGNGGTAGA GGTGGGTGAA 120
TCACCTGAGG TCAGGAGTTC ANGCCCAGCC TGGCCAACAT GGCGAAACCC CATCTCTACT 180
AANTATACAN AANTTAGCCA GGTGTGGTGG CCTGCACCTG TAATCCCAGC TACTCAGGAG 240
GCTGAGGTAG CTTGANCCCN GGAAGGCANAN NTTGCAGTTA NGCCAAN 287

SEQ ID NO:1043

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01182

SEQUENCE DESCRIPTION:

GATCTCTCCT GGAGTATGAA GACCTCCAAG GACTCACTTT CCCTCCCTTC TGATGCCAGA 60
GCAGACCAAG CTGTCACTT CCAGTCTCAT GCTGAAGTCT CCAGCTTCTC AAGCTTAGAA 120
GAGTTTTTNG AAGAGTCACT TTCAGTTCAT GCAGCTCTCA CAAGTGTGAA GGGAGTGGAT 180
TGGGGGTGTT TTCCTTGCCA TTTTCGAAAA GAAAAAATT ACCTGGTGAT TGGTGGAAAG 240
ATACAACTGT CAAAAATGCA TGATTGAAGC AATTTAGGTT GGGAAA 286

SEQ ID NO:1044

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01183

SEQUENCE DESCRIPTION:

GATCAATAAA TNATACCAAA TATATGTTTA CAGTATGATT TAAAGTCTGA TTCAGACCAG 60
GGACTCTATT TTAAGTTCAA CTGAAATAAC ACTGGGTTTT AATTATATCA CAGGAAAAAA 120
AAAGTGCATT TAAGTATTGT NATCGTGGAC TTTATAAAAG CAAAGGAAAT TGAAAGTAAC 180
TTTNGATTCT GTATCANGAA TCATATTTNC ATACAGTCAT AACTGTCTTN CTGTGACCCT 240
TTCACAGGGC ACTGTAGGAT GGATTAAAGG TGGCAATTTA CTGAAA 286

SEQ ID NO:1045

LENGTH:439

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01184

SEQUENCE DESCRIPTION:

GATCATACCG GTAAAGCAGG AATNACAAAG CTTGCTTTTC TGGTATGTNC TAGGTGTATT 60
GTGACTTTAA CTGTTATATT AATTGCCAAT ATAAGTAAAT ATAGATTATA TATGTATAGT 120
GTTTCACAAA GCTTAGACCT TTACCTTCCA GCCACCCAC AGTGCTTGAT ATTCAGAGT 180
CAGTCATTGG TTATACATGT GTAGTTCCAA AGCACATAAG CTAGAAGAAG AAATATTTCT 240
NGNGCACTA CCATCTGTTT TCAACATGAA ATGCCACACA CATAGANCTC CANGAGCATC 300
ANTTNCATTG CACAGACTGA CTGTNGTTAA TTTNGTCACA GNGTCTATGG ACTGANTCTA 360
ATGCTTCNA AANTGTTGGT TTGTTTGCAN GTTTTCGANC CGTTGTATG GCANGANGTT 420
NGTTTAGTTT CNGNTTGTN 439

SEQ ID NO:1046

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01186

SEQUENCE DESCRIPTION:

GATCTGGAAA CAGTTGAAAA CGAGACAATA TAGCCGGAGA CGCCTTATAT GATGATGCAG 60
TATCGACTAC ATTAATGAAA GTAATGCCAA ATNCAACAAG AAAGCTGAAG ATTCTATGGG 120
AATACACAGC TGAATTAACA GATTTGGAAG AGAACANCTG NTAATCCTTC AGGACTGTTA 180
TAGAGTTNAG ATGGGTAAAT TCTCCTANAA ATCAAGTCTT TTGAATTTNC AGAATCAGAN 240
TTAGAGCCNG CTCTACTAGA TTGNATAANT GNGGTCTAAC GGAAA 285

SEQ ID NO:1047

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01187

SEQUENCE DESCRIPTION:

GATCCGGGNG GACCCCTTTG CCCTTCCCTC GGCTCCCAGC CCTACAGACT TGCTGTGTGA 60
CCTCAGGCCA GTGTGCCGAC CTCTCTGGGC CTCAGTTTTC CCAGCTATGA AAACAGCTAT 120
CTCACAAAGT TGTGTGAAGC AGAAGAGAAA AGCTGGAGGA AGGCCGTGGG CCAATGGGAG 180
AGCTCTTGTT ATTATTAATA TTGTTGCCGC TGTGTGTGTG TTGTTATTAA TTAATATTCA 240
TATTATTTAT NTAATACTTA CATAAAGATT TTGTACCAGT GGAAA 285

SEQ ID NO:1048

LENGTH:283

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01188

SEQUENCE DESCRIPTION:

GATCGAAGTG ACAAAGTGTG TTTTCANTCA CAGTGGAGGC TACATCAAGC AAGGGGAGGT 60
CCAGCCCTCT TGCAAGTGTG GTGAGAGGCT CTA TAGCAA AGACATGGGC ACCGGAGTAG 120
GTCCCGTGTA GCATGCCGGT GCTGTAGAGA AAATTCAGTG ACGTACATGG CTCTGGTTCT 180
GGACACAAAA TCTGTACTGG AGAGGAAATG ACTGCTGAAA TAAGGCGATT GTATGAATAT 240
TTAAATGCC TGGAACACTA AAGTAAAGTA ATGATATTTC AAA 283

SEQ ID NO:1049

LENGTH:283

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01189

SEQUENCE DESCRIPTION:

GATCCTCGCA GCTTCCTNCG AGCGGGGTGT CGCAGTCTTG TGCACAGAGT AAACCTTNCT 60
AGTGCCCTT TTCTGTAATA GTGAAAGTTG GTATTTAACA TTTATNCATT TTTAAAAATAT 120
TTGGAAGGTC TGANCTTG TG AAAAGAAAGT GGTGGNCTG AGGTTGGAGG NAGCTGAATG 180
GAATCTNACG GTTGGNAGTG GTGGAAATTG GAAGGATACC AGGAGGTATT TGGGAAGGCC 240

AATGGCGTGG CTCCTTTGAG GAAATAAAAC ACTAAGCATG AAA

283

SEQ ID NO:1050

LENGTH:281

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01191

SEQUENCE DESCRIPTION:

GATCCTTTTC ATACCTNATT TGGAATTGCT GGATTGTAAC TTTTGGNAGA AGAACAGATT 60
AAACCTGTTA ATCCTGTCTT TTGCATGCCT GAAGAAGTGC TTCAAAGAGT GAATGTTTCAG 120
CCTGAGCTAG TGAGCTAGAT TCATTGAATT GAAAGTTGCA TAGTATAGTT TTGCCATTTT 180
AACATTTCTG TATTTNAAGT GCTTATCGAA TCTAAAAGTG ACTACTGTNA ATATTNNGTA 240
TATNGTGTNA AATTAATTNN ANTAAATNAT ATAATTNTAA A 281

SEQ ID NO:1051

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01192

SEQUENCE DESCRIPTION:

GATCAATGAC AGAGCCTTCT GGAGGACATT CCAAGACAGT ATACAGTCCT GTGGTCTCCT 60
TGGAAATCCG TCTAGTTAAC ATTTCAAGGG CAATACCGTG TTGGTTTTGA CTGGATATTC 120
ATATAAACTT TTAAAGAGT TGAGTGATAG AGCTAACCCCT TATCTGTAAG TTTTGAATTT 180
ATATTGTTTC ATCCCATGTA CAAAACCATT TTTNCCTACA AATAAA 226

SEQ ID NO:1052

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01193

SEQUENCE DESCRIPTION:

GATCACAGCA TAAAAGAATC ATAAGATAAA ACATCAAACCT ACCCAGCAAC CTGAGAAGCA 60
CAGAGTGTTA AAGCCTCCAC CGTGTGAGAA ACTAAATTAG GGTAAC TAGC TATTGAGTAT 120
ATTGAGTACC TTCAAAGCAC TCAACTGACA GGTTTTACAG ACTGGAAATT ATAATACTTA 180
TGACATTTCT ACCTTTTATA TAACCAATAA TCTACCATAG AATGTAGTAT TTTTANAGCT 240
ATTAGCANGC AATATATTAN NNTANTANTG NATTA AA 277

SEQ ID NO:1053

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01194

SEQUENCE DESCRIPTION:

GATCCAACCC GAATAAGATT AGAAGCTTTC CATCAGTAAA AGGATGTTTT CTTTTTTCAC 60
ACAGTAAAAA TTCTTATCAT TCAAGGATAT TGGAACCACA GGACTATTTG GATAAAAAAC 120

00567

ATTATTTGCA AATTAATGCG CATAGGCCAT CTTACTTTTA TTGCAAAATG GCATGTGCTG 180
CCATCTATTA TTCATTTTTTA AATGGTCATT TCTTATTCAG TGAGTGCTTT AGTGTTTTAA 240
ACTATATGGA TAAGAATGCA GGTAGGATAA TATTCTN 277

SEQ ID NO:1054

LENGTH:283

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01195

SEQUENCE DESCRIPTION:

GATCCTGAGG ATTACAGCTG TGAATTTTT GTCCATGCTT CAAATAATTT TGAAAGAAAT 60
TTTCCCATAT NAAAAAAGGA GAGAACACTN GCATCTGTTG AAATTTGGAA NTTCTGAAAT 120
NATAGTATTT TTAATAATTG CACTGAAGTG TATACACATA AAGCAGGTCT TTTATCCAGT 180
GAACAGGATG TTTTGCTTTA GCAGCAGTGA CATAAANTTC CATGTTAGAT AAGCATNTGT 240
TNACTTACCT NGTTATTAAA TATTNTTTGG AAAAGCAGTG AAA 283

SEQ ID NO:1055

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01196

SEQUENCE DESCRIPTION:

GATCTGTGTA TGCTGTTGGG TCGGAGTGCC AGTNACTGCT TTGGAAGTCT GNGTTCTGGG 60
GCTGCAGAAAT GACAAACGTG TCATGGGATT AAAACCAATC AACTGTGAAT TGTGAAATTG 120
AAGCTACTCT TTCGGTTTTA TTTTCTTTAG CATATTGAGT ATAGAAATCT GAAACTTATT 180
TAAAATTTAT ACTGCTTTTG TTGATGGCTC ATTTTGGCTG TGTATCCTCA CTTATGTACT 240
GATTTCTGAT AAAGGCTTGA CATTATTATA ACANAAA 277

SEQ ID NO:1056

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01197

SEQUENCE DESCRIPTION:

GATCGACCTT NTCTGTTTTN TTTTGTTTTN NTTTCTNTTT CCTGGCCATG AGGACAAAAA 60
TTACTGAGTG GCCCTTAAAG AGGGAAGTTT GTTTTCAGCT GTN 103

SEQ ID NO:1057

LENGTH:291

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01198

SEQUENCE DESCRIPTION:

GATCGACCAC ATCCTGGATG CCCTGTAGCC CCTGCCCGCA TCCTCCAGGG GGGCCAGGGT 60
GCCTGCACTT TNCTGTGGCA GGCAGATTGG GTGGTAGTGG GAGGTTGTGC ATGGAGGCCA 120

GTNAAAGCTG ACATCTGTAA AAGGCCTTCA AGGAAGAGAA ACCAGGCCCT GCGTCAGGCA 180
GTGTGAGTTT GCCGTTTGTG CTTAACTTTC TTTTTTTTTT TTAAAAAAN GGAAANNTTT 240
AAAAANCTC CCTTTAAAC CAAANCATNT TTGNNTTNN NCCAAGGGAA A 291

SEQ ID NO:1058

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01199

SEQUENCE DESCRIPTION:

GATCCCGCTC TGTNTTTTCC AGGTTTGTGC TATTCTNATT ACATTATCGA CTAGTCTGAA 60
GCAGAGCTGA TATCTCTTA CCTGGGGAGT CAGCTTCACC AGCCACAGCT GCTGAAAGAA 120
TAGCTTGGAG ATTTACCCA CTGCATTCT GTNGCTCAAA CTTTTGACC TTTGTGCTAT 180
TTGAGAAATC TTTGAAATGC TGAAGGTATG ATTCTCCTTC AGGGGGAACA TGCTTTGGGA 240
AAACGCCCA CTTAATAAAA TGTATTCNT TTCAA 276

SEQ ID NO:1059

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01200

SEQUENCE DESCRIPTION:

GATCTGTATA TGGTAAACAG GGGTTTAACC ACATGTGGTT AACATGGATT AATGTGGGAN 60
TTTGGCTTCA AGAACACAAC CTTAGGACCT TGNCCCCAA AAGCTGGTGG TGAAATGAGA 120
GGNGCCAATT TAAGAAGACC CTTATGGAGA CCTGAGGCTG CAGAACTGG TAGGTTTCAT 180
CAGGTGGTTA AAGTCGTCAA AGTTGTAAGT GACTAACCAA GATTATTTCA TTTTAAACC 240
ACAGAATAAA AATGACACCT GAGCTTCTCT NTNAAA 276

SEQ ID NO:1060

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01201

SEQUENCE DESCRIPTION:

GATCTAGTTC CCCTGGAAAA GCTGCTGTAT TTTTAATTTT TAATGGAATG TAGCTTTTNN 60
AATCCTGTCA CTGGCATCAA CAAAAGGAAT TATACCATGA GACCTTATAG CTGTACTTAA 120
AAGCCATTCA GTTCAGCTAT TGGGAGTTCA TGATGAATTA GCATATGCCA GAAAGGTTGC 180
TAACCTTAAC ATCTGAGAGC AGTAACACTG ATTTTATCTG CTGTATGAGA CTTTGTGCAT 240
TTTACTTTGA AATAAAGATT TTTTCCACA CTGAAA 276

SEQ ID NO:1061

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01202

SEQUENCE DESCRIPTION:

GATCCTGTTT CTNGCTCTGA GTNCTAGCTA GCCAGCTGTN TTCACACTGT AAACATTTCAT 60
 CAAGCTGTAC ATTTGGTGCA CTTTTCTGTG TCATACCACA ATAAAAAAAA NCCTATCATC 120
 TTACAAAAAC AAGACACCCA AGTCCAGGCC CAAGGAGTAA GTACAAATAT TCCTGTTTCT 180
 GANCCATTAC TGTAATTGGC TCTNAAGNCT TGAGGTANCC TTATAGGTTA CTCATAGGGC 240
 ATATACAAAT AAACNGTTT GTTTTCTTT TNCAA 276

SEQ ID NO:1062

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01203

SEQUENCE DESCRIPTION:

GATCTTCAAC GGATACTAGA AAATGAAAAA GACTTGGAAG AAGCTGAGGA ATATAAAGAA 60
 GCACGTTTAG TACTGGATTC AGTGAAGTTA GAAGCCTGAA ACTTTTCTCG TATGGGGTGG 120
 TTTTGCATT AAATCCTGGG GTCCATTTA CAATCCATTA TTTTGGACCA CTGCTATGTG 180
 TTCAAGTAGT ATGAGAATGT GATTGTTTT ATCTGGTTAC ATATATATTT CTTTGTCTAA 240
 TTTAATATGT CAAATAAATG AGTTCATCTA ATAAA 275

SEQ ID NO:1063

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01204

SEQUENCE DESCRIPTION:

GATCTCACCT CTTCTCAGG ATGGGGAGCT CACTCCGAGA ACAGGAGAAA TCAACATTGC 60
 AGTAACAAGG TAGAATGGTT TTGAAGAAGA AAAAACCTGC TTTCTGACTG ATTTTGCCTT 120
 GAAGGAAAAA AGAACCTATT TTTGTGCATC ATTTACCAAT CATGCCACAC ANGCAATTTAT 180
 TTTTAGTACA TTTTATTTTT TCATAAAATT GCTAATGCCA AAGCTTTGTA TTAAAAGAAA 240
 TANATANTAN AATAAAAAGT CTGTGCTGTT GAAA 274

SEQ ID NO:1064

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01205

SEQUENCE DESCRIPTION:

GATCCAAGTT CCTAGACCTC ATGGCTGTCC CCTCCCACCA GTCACCTCCA CTGCACAAC 60
 CGGGCGGGGG TGTGACACCT CTCCCCACC NCCGACTCCG TGGTTTCCGT ATCGTCAACC 120
 CTTCAGCCGC CGACCCGGGA GGGGTCTGGC CTACACTGGT CTTCCCCTTC CCATCAACTC 180
 TTTCTGCTTG ACAATGTAGC AACCCAGGCC CCCCACCCAC GGTCTCCCC TTTTCCTCT 240
 CCCTGACAAT AAAGTCTGAA TTTGTTCTGC NAAA 274

SEQ ID NO:1065

LENGTH:269

TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01207
 SEQUENCE DESCRIPTION:
 GATCTATCCA TCCAATGTTG TCATTATATT TGA CTGTGGT TCAACAGTAT TGC GTTGTCA 60
 GACTAGGAAA GTTAAACGAA CAAAATGGTT TTAGTTTTGC TGAAGACTGG CCTTATTAAT 120
 GGACAGCTTT CCTAACAAGA GATTATTAAC TTTTATCAGG TGTTAACATC TGTTTCAGGA 180
 ACATGGCAGT ATGTTTACAT GTCAGAAGTT TTGTTTAATT CTATGGTATT TCTAAATTGA 240
 CTTGTTTAAA TAAATTCAGC AAATGGAAA 269

SEQ ID NO:1066
 LENGTH:269
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01208
 SEQUENCE DESCRIPTION:
 GATCTGGTTG GCATTTTCTC CCTGATGATG GGAGCGTCAT TCTTTTGTCT TCATGGTTAC 60
 TTGTGTGATA TAACATACAT CTGTNAAAGA AAATCACTTC TTTCTAGGGG AGGGAGGTAG 120
 AAAAGTATCT TTCAAACCTG GTTTTTNAGT TTGTNTCTTG TCTTAACTTT GTGTNGGCTC 180
 TAACTNAAAC ATGCTGATAT GTGTTTNCAN GANTTTTGGT TTAAGGANGT ATTGTATGGA 240
 NGTCCACANA TTGGNAGGTN GTTCATCTN 269

SEQ ID NO:1067
 LENGTH:269
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01209
 SEQUENCE DESCRIPTION:
 GATCGATTAA GGAAGGTGGT TATGGCTGGG TGGTTCAGGG GTTTTTTTGG GTTTNTTTTT 60
 TTTTTTCTTT GTCTTTTNA CCTAAAGCTG TTAAAGTTGA AGCATTCTNA GATGTTTGGG 120
 GGGAAACATC CTCTNAAAT GGGNCCTGT GCTTGCNTTC TGGGGAGGCG GTCCTGAGCA 180
 GGTGANTCAT ANGGCATTTA TGCATATGTN ATATGNGGAC TGNACCCACC TTTCCCCCN 240
 AGCCTTTGCC TCTTGGGTTG TTGTNCTGN 269

SEQ ID NO:1068
 LENGTH:268
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01210
 SEQUENCE DESCRIPTION:
 GATCCTCTTT GTTTGTNCAA AGGACCAGTT TTCCTAGGCC AAAGAAGTCT CTNCCCCATG 60
 TAAGNCCTAT GCCTTNAAT ATCATGCACC ATGACCCACA GCCATCTGGT TATGTCTTAT 120
 TTTTTCCTA AAAGATAATG TTTATNNTTA AAAAGGAAGG ANGGAGCAAG TGAAGTTTCA 180
 TTCTGCTCCA GCGGTGGGGG ANGCGCTGA ATCCACCTGN TTCTCCTTTT GCAACCGNCA 240
 GCANGCAGCT TTTCTCCGGG CNNCAGGN 268

SEQ ID NO:1069

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01211

SEQUENCE DESCRIPTION:

GATCTAGAAG GTGAAGAATT TTTTATGTA TATATAGACA TATCTATATA AATNGTCTGG 60
CTGAGGCAGG GCCTTCANCT ATCATTGGT TAATAAATAC ATTNAGTAT TTNCATTTCC 120
TACTGCCTGC AGAGTTTCAG GTGCTTGNG TGTGAAAGTC CTGTAGATGT GTGCAAATTT 180
AACGAAATGA AATTGTATGT GTAAANTGT ACGATTTTCC ACTGTGCAAC TGTAATNAT 240
AAATAANANA TATTTTNNCT ATTCAA 267

SEQ ID NO:1070

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01212

SEQUENCE DESCRIPTION:

GATCCTAGTG ATTTAGCCC ATGCATTAAG CAGGAAACAA TAATAAATTT GTAGAATTCA 60
TATTTTCTA AAGGGAAGT AAAAAGTGT GCTACATGTT ATGTACAAAA CTGGTTTATG 120
CCACATGGAC AGAGAATCAC ANGTTGGTT TTGGTACTTT NNGTTCCTCT TTGTATTCAG 180
TTGTATAGAC CTNCCAAAT CAGATGAGA NGAAAGCTGT CTGTATCAAA CCATTTANGC 240
ANTAATTGTT ATATNTNANA GCTAAA 266

SEQ ID NO:1071

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01213

SEQUENCE DESCRIPTION:

GATCCAAGTT ATACATGAAT AGAAAAAGAT GGTGTTAAAT TTGTGTGTAG GCTGGGAATT 60
CTTGCTGAAG GAATTGGAGA AAACCTGTTG CTGCAAAAT TTACATGTTT CAGATGGAAA 120
GGGAAGTCTA AGCNCCTTTT AAAACAATTT TTTTGTAT TTAATTAAGC AATTNCAGTT 180
ATCTGGGATT TTTGGGTCAG AATTTTAAAT TCTGTTGAT TCTCCATATT CCAGTNAATA 240
AAATACAAAA GCATTGTNTT TTAAA 266

SEQ ID NO:1072

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01214

SEQUENCE DESCRIPTION:

GATCTTCAAT TCCTTGAGTC TGAGCTGTG GGTGGAATTC TAAATTTGTA TCATAATCTG 60
TCTTTTGTGA AACATTTTGA AAATATGTAT ATATAATATT GTATATGCAA ATTGTGTTGT 120

TTCACTTGTA AAGGGAAAAG GCTTATTTTN CTTTATATTT CTGATAACTT GTTTTGCATA 180
TGACCAGCAC TGACTGAAAG GCATGTGTAG CTGCAAACAC TGTGCTTTT TTTGTGAAAT 240
GNAAATAAAA GTATTTAAAT ACAA 265

SEQ ID NO:1073

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01215

SEQUENCE DESCRIPTION:

GATCGTGCCA TTGCACTCCA GCCTGGGTGA CAAGAGCAAA ACTCCATCCC CCCTGCCCAA 60
AAAAAAATN AATTTTCACA GAAAATTAAT AGCATAGGTA TTATNATCCT CATTTTACAG 120
AGAAAGAAAC AGCCATAGAG AAAAATGACT TGCTCACAAC ACAGGCAACT TTGACTCTAG 180
AGATANCACT TATTACAGTA AAATCCCTCT TCAGNCACAA AATACATGAT TATCTTAAAC 240
ACATTCTTAA TAAAANTTTA NCAAA 265

SEQ ID NO:1074

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01216

SEQUENCE DESCRIPTION:

GATCAAAGAT TGTAATAATA ATTTTGTAAG TGTGAAGCAA AAAGTTATTT TTATATTATA 60
TACAGTCTAA TTGTTTCATCC TAATTGTTCC TGTTCATC TAGTCAGAGA TTCAGTAAGT 120
NCCTTGGAAC AATATTGAAT TCTCTTAGCT TGTGTGTGTT TCTTTAATAT TTGAACTCAA 180
GTGGGATTAG AAGACTATNA NNNTACATGT ATGTTTCAGG ATATTTGACC TGTCATTAAT 240
AAAAACAAAC AGTTTTTACAG TGCCTAAA 268

SEQ ID NO:1075

LENGTH:305

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01217

SEQUENCE DESCRIPTION:

GATCTCCATG TAGTCCATAT GAAACCTGCA GAGTGATTTT CCAGAGTGCT CGATACTGTT 60
AATTACATCT CCATTAGGGC TGAAAAGAAT GACCTACGTT TCTGTATACA GCTGTGTTGC 120
TTTTGATGTT GTGTTACTGT ACACAGAAGT GTGTGCACTG AGGCTCTGCG TGTGGTCCGT 180
ATGGAAAGCC TGGTAGCCCT GCGAGTTAAG TACTGCTTCC ATTCATTGTT TACGCTGGAA 240
TTTTTCTCCC CATGGAATGT AAGTAAACT TAAGTGTTTG TCATCAATAA ATGGTAATTC 300
CTAAA 305

SEQ ID NO:1076

LENGTH:263

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01218

SEQUENCE DESCRIPTION:

GATCCTGTAA GTTGTCAATCA AAATATGATT TAGAAATATT GGCCAAGGTG TTGCTTTAAC 60
TGAGGAGAAA AGAAAGCACA CTGCCTAAAT GTGTAAAAGA AAAATGCAGA GGTTATTAAA 120
ATGTAAAGAA GTAACAATCT TTGGATTTGT CTATACATAT ATATATATAT ATATNGNTTT 180
GCCTTAATAT ACCCCCTTTT TTGTTTGTGA CTTTCAACTG TAATCAGTTA ATAAAGTATT 240
TATTCTCTGC ATTCAGGTTT AAA 263

SEQ ID NO:1077

LENGTH:354

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01219

SEQUENCE DESCRIPTION:

GATCGACAGC AAGCAATCCT TAAGGGACTT TCAGAACTGA GACAGGGCCT TCTCCAGAAG 60
CAAAAGGAGT TGGAAAGTAG TCTCCTGCCT TTAGCTGAAA ATCAAGAAGA GAGTTTTGGT 120
TCTTCATTTT AAATGTAGAA AATCAAATCC TTCACATTG ATTTGTGTCT TCCAAATTAT 180
AAAATGTGCT CACTGGCTCA ACTGTATTTT TCAAATAGCC TAGATTTACT TATTTTTTTA 240
ANNGNNCATT AAAAAGTTGT ATACTATGTA GTAAATGCT GTACTTGTNC TATACAATAA 300
ANCAGATACT TCTTTTGTA AAGCTTAGTA GTAAACNCC ACCNNNNNN NNTN 354

SEQ ID NO:1078

LENGTH:260

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01220

SEQUENCE DESCRIPTION:

GATCGTGCCT GTGAATAACC ACTGCACTCC AGCCTGGGCA ACATAGTAAG TAAGACCTTG 60
TCTCTTAAAA AAAATACATT CTGAAGAAAG TTCTACTTAT GANTACATTT TATTTATAAC 120
AAACTGGTGA AAATTTTAGA CCAAACCATG TCTTTCTGGG TTGTAGTGAT TAAAAATGG 180
TTAAGAGAAAT GTTCCCTATA CAAGGCATAT GTTATTAANC ATGAAATTTA GGNTTAGTTT 240
TCTCTTTGAA NNTCCTTTTN 260

SEQ ID NO:1079

LENGTH:260

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01221

SEQUENCE DESCRIPTION:

GATCCCGAGA CTTGTGTTCT CTTGGCTGAA NACACTNAGG TGCTCCCATC TGTNCGTGGC 60
CCATGANCTG GGATGGTCCT CCAGCTGCCC ACAAGGTCCG CCCCTCTNTC TCTGCACCAC 120
CTGTTTGCAT AAACACACTT TGCTACAATC TTGCTAGTNC GTTTTCTTAA AAGATAATCT 180
ATTTACTGTA AAAATAAATT GGACTTTGCA AAAGCTTTTA GAAGGAAAAG AAAGAGGATT 240
AAAGAGAATT GCTGGTGAAA 260

SEQ ID NO:1080
LENGTH:259
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01222
SEQUENCE DESCRIPTION:
GATCCAAATT TCCTTTTGAT ATTATTTTAC TTCTGCCTGA AACATTTTCT TTAACATTTT 60
TTATAGTGTT GTTTTACTGG TGATGATTTT TTTCAGGTTT TAAGTGCCTG AACAAAATCT 120
TTATTTTACC TACATCTTGA AAGATAGTTT CTCTGAGTCT ACAATTCCCA GCTGACAATG 180
TTTATCTTCC AGTACTTTAA AGATGTTGCT TCATTATCTG CTAATTTNNT TTGTTTCCAA 240
TAAAATGTTT GCTGGCAAA 259

SEQ ID NO:1081
LENGTH:316
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01223
SEQUENCE DESCRIPTION:
GATCTGCGGT GAAGCCAAGC CGCAAGGTTA CAAGGCATCC TCACCAGGGA TACCCGCCTG 60
CTGCTCCCAG GTGGCCTGCG GCATNGCTAT GCTCAAGGAC CTGGAAACCC ATGCTTCGAG 120
ACAACGTGAC TTTAATGGGA GGGTGGGTGG GCCGCAGACA GGCTGGCAGG GCAGGTGCTG 180
CGTGGGGCCC TCTCCAGCCC GTCCTACCTT GGGCTCACAT GGGGCCTGTG CCCACCCCTC 240
TTGAGTGTCT TGGGGACAGC TCTTTCCACC CCTGGAAGAT GGAAATAAAC CTGCGTGTGG 300
GTGGAGTGTT AGGAAA 316

SEQ ID NO:1082
LENGTH:259
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01224
SEQUENCE DESCRIPTION:
GATCCAAATG GATTACCAGT GTGCTACAGA CTTCTTATTA TAGAACAGCA TTCTATTCTA 60
CATCAAAAAT AGTTTGTGTA AGTTAGTTTT GGTACCATC TAAAATATTT TTAAATGTTT 120
TTTACATAAA AATTTATGTT GTGTTTAAAT ATCCTTAGGG GCTTTATCTA TTTTCTAAG 180
TCAGTAACT GTACTTCTAA AAAAAGTATT TTGTATCTAC TTTTGTAAGT TCGTCAGAAT 240
AAAATATATT GAANGCAAA 259

SEQ ID NO:1083
LENGTH:258
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01225
SEQUENCE DESCRIPTION:
GATCGCTTCA CATNTATAAA AAAAATAANA ATACCCGGGC AAGCTTTCTT TGAAGNTGCT 60
ACAGCATTAAT ATATCGAGAA TTTTGGGTGG GAGAGAGCAG TTCAATTTTC TTTACCAGCT 120

GAAGTTCATT TATGATACAA AAGAGATGAA ATGGAAGTGG CAATATAAGG GGATGAGGAG 180
GCATGCTGGC AACCTTCTT TTAAGATGTG CTCAATTTGT ATAANTGGTG TTTCATGNAA 240
TAATCATCTT GGAGGAAA 258

SEQ ID NO:1084

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01226

SEQUENCE DESCRIPTION:

GATCGCCGCC CAGGGTTTCA CGGTCGCAGC CATCTTGCTG ACGTCTGNCT GNCACTGCTA 60
TGAAGTCTCG ACCCTAAGCC CAGGGTCTGG CCTTGAAAGC TCCGCAGAAA TGATTCCANA 120
ACCCAGGGAG CAACCACTGG CCCTACCGTG GGACTTACTC CCTCCTCTCC TTTGAGAGGC 180
CCATGTGTCG CTGGGGAGGA AGTGACCNTT TGTGTAAGT TAACCGAAAAG TTTTTCAAA 240
AATCCTAGAT GCTGTTGTTT GAATGTTACA TACTTCTATT NNNGCCACAT CTCCNTCCA 300
CTCCNTGCT TAATAAACTC TAAAAATCCA CTTGTATTAA AA 342

SEQ ID NO:1085

LENGTH:260

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01227

SEQUENCE DESCRIPTION:

GATCTAAGAA GANACTAGCC TTGTGGAGTA TATAGATGCT TTTCATTATA CACACAAAAA 60
TCCCTGAGGG ACATTTTGAG GCATGAATAT AAAACATTTT TATTCAGTA ACTTTTCCC 120
CTGTGAAGT TACTATGGTT TGTGGTACAA CTTCATTCTA TAGAATATTA AGTGGAAGTG 180
GGTGAATTCT ACTTTTATG TTGGAGTGGA CCAATGTCTA TCAAGAGTGA CAAATAAAGT 240
TAATGATGAT TCCAAATAAA 260

SEQ ID NO:1086

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01228

SEQUENCE DESCRIPTION:

GATCCTTAAT GTTTTGATTN TTGTTTCTG AAATTGGATT TTATTTTATT TTATCTTATA 60
ATNNCAGTTC ATCTAAATTG TGTGTTCTGT ACATGTGATG TTGACTGTA CCATTGACTG 120
TTATGGAAGT TCAGCGTTGT ATGTCTCTCT CTACACTGTG GTGCACTTAA CTTGTGGNNT 180
TTTATACTA AAAATGTAGA NTAAAGACTA TTTGAAGAT TTGANTAAAG TGNNGNNGTT 240
TGCATTACAC CTCAA 256

SEQ ID NO:1087

LENGTH:254

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01229

SEQUENCE DESCRIPTION:

GATCTTTAAA CTCTGGCTTC TTCCTCCTCA ATCTTGACAG AAAAAGGGTG CAGACGTCTG 60
GTTCAAAGAG TTGGATATCA AACTGATGG TGCAGTTAAC TTCCAGGAGT TCCTCATTCT 120
GGTGATAAAG ATGGGCGTGG CAGCCCACAA AAAAAGCCAT GAAGAANGCC ACAAAGAGTA 180
GCTGAGTTAC TGGGCCCAGA GGCTGGGCCC CTGGACATGT ACCTGCAGAN TAATAAAGTC 240
ATCAATACCT CAAA 254

SEQ ID NO:1088

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01230

SEQUENCE DESCRIPTION:

GATCCATCCC ATTCACCCAG TGACTTCTTT TTGCCCAGGC CGGGACTTTT TGCATCAGTN 60
ACGTTAACCA GATGACTTTG CCTGTAACCA AACCTCATGC ATCCACGTTT GCGTCTGGGG 120
AGGAATAAAA AGACATCGTT CCCGCTTCTN CGTTTTGTNA TTCCTACTGC CGCCATAGGA 180
ATTATTTCTG TGGCTGANGC TTACCAGCAC CCCGAGANCA CATTTTGATN GANTCAGAGT 240
AGAGGNCATG GCTGTNTTCT NAAAANGCCN CGCCATGNAA NTGCCAATCC CCTTTN 297

SEQ ID NO:1089

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01231

SEQUENCE DESCRIPTION:

GATCGCATTT TTGTAAAAGA ACCATGTGTG TTTATATGTG TTTATATATA TACTTGTGTA 60
TGCAAAGGTA AAAGTCTGAA AGGATATATG CTAAGTGTG ACAATGATAA CCCCCCAGGA 120
ATGGGATTGG AGGGGAGGGG GCTTCTGTGT TTGTNATGTA TGCTGGGTGG GANNTTGTGC 180
TTTTATTCT ATATTGTTG AATTTTTTTA CAGTATGTAT TATTTTGTG ATAAAAATT 240
TAAAAAATC AAA 253

SEQ ID NO:1090

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01232

SEQUENCE DESCRIPTION:

GATCTGCCTT GAAATTTAAA AATCTAAATA GCTCTTAGTT GAACAGGGGA GATATAAACA 60
AAGTTTGCAA AATTCCTAAA ACACGATGAT AATAAACATC ATACATCAGA NTTTTGAGAT 120
ATAATTAAAG CAGTACTTAG AAGAAAATGT ATAGCCTTAA ATATTTAACA TCAGTAAAN 180
TGANAGGNTG AAAATTGGGA TTAAATTCC CAACTCAAAG AGCTAGAAAN NGANTTACAA 240
AGCAAGNNGA AA 252

SEQ ID NO:1091

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01233

SEQUENCE DESCRIPTION:

GATCTCATGG GCTTTCCTGG AGGAAAGTTT TTTTGTTCG TTTTTTTTA AGACTTGAAA 60
CTTGTAAC TG AGATGCTGTA GTTTTTTGCC ATCTGTAGTG ATGTAAAGAT TTAAACCTGA 120
GAGACTTTN CTTTGTTAGA TTATGAGAAG NACTAGATGC TTTAGGTTTC ATTTCCCTT 180
AATTGCNATT CTTGTGCGCT NGTTGGGNGG GAACTGTTAT TTTCCNCAAT AAAAAGTAAG 240
TCTTATCGAA A 251

SEQ ID NO:1092

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01235

SEQUENCE DESCRIPTION:

GATCATTAAA ATCAACGTTA TCTAAGACAG CTGTATCACA TTTTGGGAT ACATCATGGT 60
ACAGTCAGAA GCATATAAAA TTATGGTTCT GCTTGTCAGN CNCATACAGA ATCCAATACA 120
TTTTGACAAA CTGCCCATTC CTGCAAGTTA ATGCCCTTT TGAAGCTTCA TTTCCTCTTG 180
TAAAGTACAG ATAGGAATCA TTATTTGTG GAGTTGCTGT AAAGATTAA N TAAAGGTGAA 240
TGAAAATAAA 250

SEQ ID NO:1093

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01236

SEQUENCE DESCRIPTION:

GATCCCAACA AAGATACAAG TGAAAACGCA GAAGGTCAAA GNGATGAGAA CAAGGACGAC 60
TATACAATCC CAGATGAGTA TAGAATTGGA CCATATCAGC CCAATGTTCC TGTGGGTATA 120
GACTATGTGA TACCTAAAAC AGGGTTTTAC TGTAAGCTGT GTTCACTCTT TTATACANN 180
CNAAGAAGTT GCAAAGANTA CTCATTGCAG CAGCCTTCCT CATTATCAGA AATTAAAGAA 240
ATTTCTGN 248

SEQ ID NO:1094

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01237

SEQUENCE DESCRIPTION:

GATCACTGNC AAAGTGGGAG CACTAAGGGG TGGGTGGGGA AGTGAAATGT TAGGCGATGA 60
ATTCCTGAGC ACCTTGTTTT TNTNCCAAGG TTCGTAGCTC CTCTNTGCC TTCCAAGCCT 120
GTAACCTCGG AGGACTATCT TTTGTCTTN ATCCTTTGTN TTGTTTGAGT GGGNCAGCCC 180
CAGAGGAAGT GATAAGCAAA TGGCAAGTTT TAAAGGAAG AGTGGAAGN NCTGCAANTA 240

AAANNCCN

248

SEQ ID NO:1095

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01238

SEQUENCE DESCRIPTION:

GATCTCCATG CGGTCCCTGG AAGTACCCAT TGAAACATGC GTATTTGTGT ATAGCAGAAC 60
TCTGAAATAA TATTCTGACA GCAGTTATCT CTGAGGAATT GGGTTATAGG TGATTTTCCC 120
TTTCCGCATG ATAAATTTAT GTAATATTTG ACTGACTTGA CCGTAAGTAT GTTACTTGTA 180
TAATAAAAGG AAAAAAGGTA CTTCTATTTT GAAAAATAA AAATAAAAGC CTTTGGGTTC 240
TTGAAA 246

SEQ ID NO:1096

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01239

SEQUENCE DESCRIPTION:

GATCCTGTCA GGGNGTCCCC CATGCCTGGA AGAGGAGCTG GTGGCTGCCA GCCCTNGGGC 60
CCGGCACAGG CCTGGNCCTT CCCCTTCCCT CAAGCCAGGG CTCCTCCTCC TGTCGTGGGC 120
TCATTGTGAC CACTGGCCTC TCTACAGCAC GGCCTGTGGC CTGTTCAAGG CAGAACCACG 180
ACCCTTGACT CCCGGGTNNN NNNGTGGCCA AGGATGCTGG AGCTGAATCA GACGCTGACA 240
GTTCTTCAGG CATTCTATT TCACAATCGA ATTGAACACA TTGGNCAAAT AAAGTTGAAA 300
TTTTACCACN TGAAA 315

SEQ ID NO:1097

LENGTH:245

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01240

SEQUENCE DESCRIPTION:

GATCCCGGGA GCCTTGCCGC ACTGCCTTGT GGGTGGCTTG GCGCTCGTAA TTGCTTCCTG 60
TGAACGCCTC CCAAGGACGA GCCCAGTGTA GTTGTGTGGC GTGAACCTG CCCGTGTGTT 120
CTCAAATTCC CCAGCTTGGG AAATAGCCCT TGGTGTGGGT TTTATCTCTG GTTTGTGTTC 180
TCCGTGGTGG AATTGACCGA AAGCTCTATG TTTTCGTAA TAAAGGGCAA CTTAGCCAAG 240
TAAAA 245

SEQ ID NO:1098

LENGTH:245

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01241

SEQUENCE DESCRIPTION:

00579

GATCTGCAGC AGCCGAAAAAT GCGTTNTGGT AAACCTGGCC TCAAATTCAT ACTACCATAA 60
CTGTTTTTAT ATATTGCCAC TAATTTTGAC TGGATTTAAT AGCACTTTAT TGTACANCTA 120
CAAAAAAAAAA TATATNCCTA GAATNGTNNC CAGTGTAAAT CCTCTAATGT CCTGGTGCCT 180
TTTCATATAT TTCCAGNATT TTNATACTAT ATNGGTATTT CCTTTGTATA AATNGATNGA 240
TNAAN 245

SEQ ID NO:1099

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01242

SEQUENCE DESCRIPTION:

GATCTTAGGC TTTTCACTTT TTTTGTTTTG TTTTGTTTTT GAAAGAAAGA AAAAAATACA 60
ATTAACAAGC CTCTTTTGTA AATGGGTTTC CTTTCTATGT ATAAAATCGT GGTGGTCCCT 120
TGTTTTTACA TGTTTCATGCT GTGTAATTTT GAGATGTTAC TGAGATATGT TCTGAACATA 180
ATGTGCATTT TTNCTGTAC AGATGAAATG GGAGANTTTA ATAAAGAGTT TGCAGGTTTT 240
TNCTTGTTAA A 251

SEQ ID NO:1100

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01243

SEQUENCE DESCRIPTION:

GATCCAGCCC TGAGCATCAC CCAAGTGCCT GATGCCTCAG GTGACAGAAG GCAGGACGTT 60
CCATGCCGAG GCTGCCCCCT CACCCAGAAG TCTGAGCCCA GCCTCAGGAG GGGCCAAGAA 120
CCAGGGGGCC ATCAAAAGCA TCGGGATTG GCATTGGTTC CAGATGAGCT TTAAAGCAA 180
ACATAGCAGT TGTTTGCCAT TTCTTGCACT CAGACCTGTG TAATATATGC TCCTGGAAAC 240
CATCAA 247

SEQ ID NO:1101

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01244

SEQUENCE DESCRIPTION:

GATCTTCCCT AAAGAGCAGN GGACCANATA NGAAGAGGAA AATTTCTACC TTGAACCGTA 60
TCTGAAAGAG GTTATTCGGG AAAGAAAAGA AAGAGAAGAA TGGGCAAAGA AGTAATCATG 120
TAGTTGAAGT CTGTGGATGC AGCTGTTATG AAGATGGTTA AACTTGAANC AAACAATTTT 180
AAGANTTATT TNGTCTGAAN GATGTTTTAC TTAAATAAA TGTCTCNTTG NAATGGCTGG 240
AGGTTTTTGG GNGCCAAACC NTTAAA 266

SEQ ID NO:1102

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01245

SEQUENCE DESCRIPTION:

GATCCCAGGT CCCAAGGAGT GACAGGGGCT TCCTCCCACC TTCTGTCCTT GTCCAGTNAT 60
GTAAATAATG TGCTTTTCCT CTCCCCGAGT CTTTTTTTTT AAAACCTACC GTGGTTCCTN 120
AGCTAACTGC ATCCCTACC CAGGCAGAGA CTGTCCTATG CCTCGNGCTT CCAAACGAGA 180
CTCAGACCGC GACANAGCCA CCGTATTTAT GGATTGCCAA ANTAANTAAN GCCCAAANCC 240
ATCGGTCTCT GTGAAA 256

SEQ ID NO:1103

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01246

SEQUENCE DESCRIPTION:

GATCCTGGTG CTGGACAACG CTGCCATTGT CTGCAACTTT GGCAGTGAGC TCAGCCTGGT 60
GTATGTGCCC TCTGTGCTGG AGAAGCTGGA CTGAGCGCAG GGCCTCCTTG CCCAGGCAGG 120
AGGCTGGGGT GCTGTGTGGG GGCCAATGCA CTGAACCTGG ACTTGGGGGA AAGAGCCGAG 180
TATCTTCAG CCGCTGCCTC CTGACTGTAA TAATATTAAA CTTTTTAAA AAACCATAAA 240

SEQ ID NO:1104

LENGTH:245

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01247

SEQUENCE DESCRIPTION:

GATCTGGGCA GTNAGATAGT GCTCTATGCC TAAGGTGAAG CCACACTAGG NTGAAGCCTC 60
ACTTCCCTGT TTAAGCAATG CAGTGCCTGC TGCCCGTGTG CANGAAGGTA CAGCCATTCA 120
GATAAGTGGA ACTATTGAGT TACATAAAGA AAGTAGATTT GCANTNNTCN GGCAGACGTT 180
TATACANCAC CACGGTGCTT TTATACATTG TNCTNATTTT AATAAACTG ANGTTCTATG 240
TGAAA 245

SEQ ID NO:1105

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01248

SEQUENCE DESCRIPTION:

GATCTGGCTT CCATTTGGCC CCCTCATTTT CCAAATGTTT AAATGTATTG GATTTGGATT 60
CTCAATGTAT AAGTTGCCTT ATCTGTAAAT GTCTATCTTC TGTCTCTTA ATTTTGTATA 120
TCTGCTGTTT TGCTTTTGGA TACATTTTCT AATTAGAAGT CACATGATAA ATATAATCAG 180
TATAGTAATA ATACCATAAT GTGCACATAC TCAATAAATA AATGACTGCA TTGTTGTAAT 240

SEQ ID NO:1106

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01249

SEQUENCE DESCRIPTION:

GATCCATTTN TCCNTGTAAC TNGGAGAAAG GCCAGTCCCT GTAACGGGGC AGCCCTCTCT 60
TTCCCTCGGT CAGCTCGTGT NAATCCTGGN ACCTCTTCCG GTCGGCTCTG CCCGCTGTTT 120
TGGGGTCGAC TGCCACGACT TTNNATTCAA GAAGCTTCCT CCAGGCGGNA GCGGCTATTT 180
TCCCTAAATN AGAATTGTGA CATTGCAAAT NGTTGAATAA AATATTTNGC GGTCTTAA 240

SEQ ID NO:1107

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01250

SEQUENCE DESCRIPTION:

GATCTGAAGA AATGATGGAA TGGGGAGTGT AGAGAAATGA GAGTCTGTAT GATTCTGGAA 60
CAGAGACATC AGAAGGAAAG ACTGGTGAAG AGATGTATCT TTGTATATTA ATAGCTGTAA 120
TGTAAGCTTC TGATGCTTGA CTAATTGAGG TGTTAATTCT GACTTGAGAA TCTTTTTCAT 180
GAATGATTTT AAAGAAAAAT TTGGATTTTA AAGGTATTAA AATATTTTNG TTTGTAAA 239

SEQ ID NO:1108

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01251

SEQUENCE DESCRIPTION:

GATCCGCAGT CGAAAAAGAA CAAGCCACAG AAACGGGCTC GTCGTGCCAG GACACAGCAG 60
TGTCTTTCAA AAAATCAAAA CCAGAAGNTT TATCANCAGC AGGAAGNATG TGGGCTCTGT 120
CAAGTTCACC GTCACCATCA AGCCACTGCT GTGGAAGAGT TTGNCAACAG GNCAGTGTCA 180
CAGCACANCT TCAGANGCAG CATCCGNGTG TCGTCCAACA GANGNCCTNG TCCGGTCAN 239

SEQ ID NO:1109

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01252

SEQUENCE DESCRIPTION:

GATCTATGTC CGGTGTGGGT TTTTGTCTC TCGAGTTTGT TCTCTAATAA AGGCCTTTTT 60
TGTTTCAAAT TACATACGCT TTTTACTGCA CAATTTTGT ATTGACCTTA TTTCAACTGA 120
AGCGATTATT TCCAGCAGGT TTAATTCGA CAATAAGATA TATTTNAATA GTTTTACCTT 180
TCGCTAGAAT TTTGTATTGT TTTAAACAGT AAATGAATAA NTTTGTCTGAT GATTCAA 238

SEQ ID NO:1110

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01253

SEQUENCE DESCRIPTION:

GATCAATGAA ATGCACATAA ATNAACTGGT TCCATCAAGA CTGTGCACCC AGGCCTTACA 60
GTCCAACCTT TTTCTGTGTC TGGCTAATAT TTAATACTAG AAAAATATT CCTAATCAAC 120
ATGGAGTGGA GAGTTTATTC ACTGTCTTAT CTGCAGAAAT TTGCTGTCAA TATATAACCC 180
GCCTGCAGTG GAAAGTGTAT AGTGTTTGT AATAAATGGC CTGATGCTAA TGTGTAAA 238

SEQ ID NO:1111

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01254

SEQUENCE DESCRIPTION:

GATCTACCGG GGGCTATTAG TTTCAATGTA GTGATGAACA CAACTATAT TTTGAGTTCT 60
CTGCAGCAAG TGGAATGTGG TATGAAAATA TCTGATATTT ACAAAGATGA TACTGCTAAG 120
TCAGAGTCAC GTTTATTGCT AATATGATGG TGGAGTGTG TCTTCATTCA TAATGAAGGG 180
AAATGTTATT TTTAATAGNG GTTAGTGAAA TAAAANTAAN CCTATTTTCT AANCAAA 237

SEQ ID NO:1112

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01256

SEQUENCE DESCRIPTION:

GATCTGGAGC ATTTGAGCAA GTTTATAGAA GAACATGCCA CAAACTGAG CAGGACCAAG 60
GAAGAGCTTT GAAGGCCTGA GGTCTGCGNA AGGTGGGAGG AGGCAGACGC CCTGCGTGGC 120
CCATGGTCGG GCGTCCACG CCGAGGCCGG CAACAAACGA CAGTATCTCG GATTCCTNTT 180
TTTTTTTTTT AAATTTTNA AACTNNGGGG TTNCACTNCA NGNTCTGAAT ACTGANTANC 240
CATGAATNCC TGAATAGTTT AGNCCAGN 268

SEQ ID NO:1113

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01257

SEQUENCE DESCRIPTION:

GATCAGCGCT GAGGACGGNC TCAAGCATGA GTATTTCCGC NAGACCCGNN NCCCCATCGA 60
CCCCTCCATG TTCCCCACGT GGCCCGCCAA GAGCGAGCAG CAGCGTGTGA AGCGGGGCAC 120
CANCCGAGG CCCCTGAGGG AGGCCTGGGC TACAGCCAGC TGGGTGACGA CGACCTGAAG 180
NAGACGGGCT TCCACCTTAC CACCACGAAC CAGGGGCCCTC TNCNGCGGGN CCNGGN 236

SEQ ID NO:1114

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01258

SEQUENCE DESCRIPTION:

GATCTGTTGA CTTCCCTGGG TAGGACACTG CCACCTCTGG GCTCAGGTCC TNATGCCTCC 60
AAATGGCATC TAGAGTTTGA GCAGCCTTCT TGGCTGCAAG GCAGGCCTAG CCTGTGGCAG 120
CGGGCTAGGG CCCGCAGAGC ATTTGGTGCC CCTCCATGTT GCAATGCAAA CACCTTCACC 180
ACTGGGGCAG TGGGGAGAGA TGGCTATATT AATAAAATAA CGTGTGTCTT TCAAA 235

SEQ ID NO:1115

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01259

SEQUENCE DESCRIPTION:

GATCATNATT TTTNCTGCGT AGTTGACAGA CTTAGCATAT TAGTTTTTNN TACTCCTACA 60
AGTGTAATTT GAAAAATCTT TATATTAAAA AAGTAACTG TTATGAAGCT GCTATGTACT 120
AATAATACTT TGCTTGCCAA AGTGTTTGGN NTTTNTTGTN GTTTGTTTGT TTGTTTGT 180
TTGGTTCATG AACAACAGTN TCTAGAAACC CATTTTGAAA GNGGAAANTT ATTAN 235

SEQ ID NO:1116

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01260

SEQUENCE DESCRIPTION:

GATCACAATT NGCTTCATGA ATCAAGGTGT GGAAATGGTT ATATATGGAT TGATTTAGAN 60
AATGGTTACC AGTACAGTCA AAAAAGAGAA AATGAAAAAA ATACAACTAA AAGGAAGAAA 120
CACAACTTCA AAGATTTTTC AGTGATGAGA ATCCACATTT GTATTTCAAG ATAATGTAGT 180
TTAAAAA AAAANGGNA A AACNTTGTT GNAANTNCCN CCTTNCCTC NGGN 234

SEQ ID NO:1117

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01261

SEQUENCE DESCRIPTION:

GATCCCCCGN TCAGCNCNA AAGTGCTGGG ATACAGGCAT GAGCACCACG TCCGNCTAGA 60
CTTTACCTTT CTAAAGAAAT TGTTTACTGG ATTTATAAGA AGTTAATTTT TGAAAATNAC 120
ATATTTTGT NTGATAGAAA GAATGGAGCA AGTNGTGCTT ATTTCTCCA AGTCAGATAA 180
GGTTTCTAAA ATAAATAAAT TTCTAGCATA TAAAGGGTAG AGATAAACTC NNNN 234

SEQ ID NO:1118

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01262

SEQUENCE DESCRIPTION:

GATCACAGGT CTTCCCTGTG AACTTTGGTT TCTTTCTATA AATGTGTGTG GTTTTCAGCG 60
CTCAACTCCT GTCTTCAAAT GGTAGTAAGT NCTACTTCTA CTTCTGTCAT TCAGAACATT 120
TTATGTCAAA TGATGTAATG CAGAAATNCT TGTGCATATT TGTAAGTAA GGAAGCTTTT 180
TAGATTTATT TNGGTTTTTA ATAAAATTCA GATTCCTATT CTAAACTGGT AAA 233

SEQ ID NO:1119

LENGTH:230

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01263

SEQUENCE DESCRIPTION:

GATCTNCTAT GCAGTTCTGC CATGCNTCCT GTTGGTCTCT CTGTGTTCTT TGTTACTTGG 60
GTGCAATAGC AACTTCCCTA CCCCCTGCAT TCCATCTTN ATGTTGTGTA AAGTCTTCA 120
CTTTTTNNTC TGAGGGCTGG GGGTTGGGG AGTCAGCATG ATTATATTTN AATGTAGAAA 180
ATGTGACATC TGGATATAAA ATGAAAATAA ATGTTAAATT AAATGGAAAA 230

SEQ ID NO:1120

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01264

SEQUENCE DESCRIPTION:

GATCTAAGTT AGTCCAAAAG CTAAATGATT TAAAGTCAAG TTGTAATGCT AGGCATAAGC 60
ACTCTATAAT ACATTAAATT ATAGGCCGAG CAATTAGGGA ATGTTTCTGA AACATTAAAC 120
TTGTATNTAT GTCATAAAN TTCTAACACA AACTTAAAAA ATGTGTCTCA TACATATGCT 180
GTACTAGGCT TCATCATGCA TTNGTAAATT TGTGTATGAT TTGCNNNTNT GNNNGNN 237

SEQ ID NO:1121

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01265

SEQUENCE DESCRIPTION:

GATCTGGCCA GTGTACTTT TAGCTCCCAG AGGGAGAGTT GGTGGTATTA TGAGTTGAGT 60
AAAAACCATC CAGGGGAAGT TGAGGGAGCA GTCTGTTGCC AGTAATGTTT CTTGTGTGCC 120
ATTAAACCAC CTCCAGATGA GTGGAGGAAC ATCACTTTTT AATTTTTTAA TTGTATTTGG 180
AATTGTTGCC GTGTACTAAG AACTTGACCT AAATAAAATC CCACAAAGTA TAAA 234

SEQ ID NO:1122

LENGTH:232

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01266

SEQUENCE DESCRIPTION:

GATCCTCAGG ACGCAGGTCA CATTACCTG TGGGCAGAGG GACAGGTCAG ACACCCAGGC 60
 CCACCCAGA GACCTCCAT GAACTGTGCT CCCAGCCTTC CCGGCAGGTC TGGGAGTAGG 120
 GAAGGGCTGA AGCCTTGTTT CCCTTGCAAG GGGGCCAGCC ATTGTCTCCC ACTTGGGGAG 180
 TTTCTTCTG GCATCATGCC TTCTGAATAA ATGCCGATTT TATCCATGGA AA 232

SEQ ID NO:1123

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01267

SEQUENCE DESCRIPTION:

GATCAGGAGG CATCATTGAG GCCAGGAGCT CTGCCCCTAA CCTGTATCCC ACGTACTCTA 60
 TCTTCCATT CTGCCCCTGC CCCAGAGGGC CAGGAGCTCT GCCCTTGACC TGTATTCCAC 120
 TTAATCCACC TTCCATTCTT CGCCCTGTCC CCACAGCCGA GTCCTGCATC AGCCCTTTAT 180
 CCTCACACGC TTTTCTACAA TGGCATTCAA TAAAGTGTAT ATGTTTCTGG TGAAA 235

SEQ ID NO:1124

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01268

SEQUENCE DESCRIPTION:

GATCGATGCC ACGTTCGTAA GGTCTAAGT CCTTCTTGGC TCCTNATGTG GTCCCTCTCC 60
 TCGGAAGAAC TGCCCAGCCA CGGGTTTTNA ACCCACCTGT TGCTCCTNAG GTCGTCACTA 120
 TATCAACAGT CACAAACCCA ATGGCAATAA AGGCACTGAC GATAGCTGGC GCGCGCNACG 180
 CCACACACCA TTTTGNAGAT CCGTTGCAAT TAAATCTTGC CAACTGTCC TCCTGAAA 238

SEQ ID NO:1125

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01269

SEQUENCE DESCRIPTION:

GATCCCTGGC TGGAATGTCA TACCATTGAC CCATTTGAAG AGTTAAAGCT GGATTTGACT 60
 GCTCTATTCT ACCAGGAATA TTGTTAGGGT AGCCTTTTAC CAGTTTCTAA ACANTNGTAA 120
 TCATTTATTG ACTCAGCAAT TCCTCAGATA ACAGGTCAAA AGATGTACAG ATACATTCNN 180
 NAGTTTTCTT GCTATTAAAG GCACAAGAGT TTCCTTGTAT TTTGACTGAA A 231

SEQ ID NO:1126

LENGTH:230

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01270

SEQUENCE DESCRIPTION:

GATCTACAGT CATGCTTTAG CATGGCTATG GAGCTAATTA TCAAGCTTAA AGGGTAACTT 60
 TGGGAGGACT CCTCCCTTCA CTCCTAGTCT CCCTTGGAAG AGCAGTCCAG GCTCAGGGAA 120
 GGGAATGGAT AGGATGACAC AGTAAGTACA GAAACTGAAG CTGTCAATAG TGAAGGAAAA 180
 AGGGGAATTC TTCGTTGCTT TGGCATTNAC ACATAAGTAC TTTGATTAAA 230

SEQ ID NO:1127

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01272

SEQUENCE DESCRIPTION:

GATCCAAAAT TTATAGCATT CTTCTACCAC CACAGGGGCT CATATGACAT TAACAGACAA 60
 GACACTTTTC AGAAAGACAG GTTGTCTTTT TGGGCCACAT CTAAGAAATC TTTGTCTAGC 120
 CAAAAGCCAC AAATAATTTT TCATTTTTTG GCTTCTGGAA GATGTACAGT TAAATGTTAT 180
 ATTTGGGACT GTTATCTAAT TTGATTAAAT TGCACTCTAC AATATGAAA 229

SEQ ID NO:1128

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01273

SEQUENCE DESCRIPTION:

GATCAGGGCT GAGGGTAAGG AAAAGAAGAG ACTAGGAAAG CTGGGCCCAA AACTGGAGAC 60
 TGTTTGTNTT TCCTGGAGAT GCAGAACTGG GCCCGTGGAG CAGCAGTTTC AGCATCAGGG 120
 CGGAAGCTTA AAGCAGCAGC GGGTGTGCCC AGGCACCCAG ATGATTCCTA TGGCACCAGC 180
 CAGGAAAAAT GGCAGCTCTT AAAGGAGAAA ATGTTTNAGC CCAGTCAAA 229

SEQ ID NO:1129

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01274

SEQUENCE DESCRIPTION:

GATCCTTACT ACTGGAATTA CCGGGTTAAA AGGAAATGCT TACCACTAAG ATGTCAGTAT 60
 TCTCCTCATG GATATTTTCA ATCTCAATGT TGCCAGTCTA ATAGTATAGT ATGTGGTTGC 120
 TTTACTGCTG TTCTCCCCAC CCCCGTGGAG TTGTGTCATT ATTTTAATGA ATGTGAGCTC 180
 TTGACTTACT CTAGAATTCT AATACAGATA CTTTCTGCAC TAGTAAA 227

SEQ ID NO:1130

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01276

SEQUENCE DESCRIPTION:

GATCCGCTTG GTGACGGGCG TCTTCCCAGA TGCTGGCGTC ACCGCTAGAC CAAGGAGCCC 60

TC TGGTGGCC CTGTCCAGGC ATAACAGAAG GCTCGCACTC CTGTCTTCTG GTCAC TTCTC 120
ACTATGTCCC CTCAGCTCCT ATCTCTGTAT GGCCTGGTTT TTCCTAGGCT ATGATTATTG 180
AGTGAGGATT ATCATAATAT TGAATAAAAA AGTAATTGCT ACCCAAA 227

SEQ ID NO:1131

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01277

SEQUENCE DESCRIPTION:

GATCAGGATT GTCCTACAGT TGTAATAAG ANTAGGTCCT GTTTATTTTG ACATCTNTTT 60
ACAAATGCAT TGTATTAGGG TGTGAATATT CTGAACCATC CTCTTGTTTA AAGTTTGGA 120
ATTTTATTG TTAAATGTAA CATTTAATG GTTGAATAA TTATTGTAT AGATATGAAT 180
ATAGTATTN ATTTAAGANA ATAACTTTG CATTTTGCA TNGTAAA 227

SEQ ID NO:1132

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01278

SEQUENCE DESCRIPTION:

GATCTGAAAT TTGTGTATNC TAAAGTAATT TNGTTTATG TATTGGAAGT TCACTTAAAA 60
ACTGGAAATA TTTCTAGAA GGGTACCACA CAAAAGGAAT CATCTTAAAG CTGTTTAATT 120
AACCTAATAA AATAATNTGA TGGGGAAGGC ATTCTAATTG TTTCTGATT TNGAGTGGT 180
TCCTGCTAAN TCATCANTAT CANTACAGCT TGATTGATT TAAGAAA 227

SEQ ID NO:1133

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01279

SEQUENCE DESCRIPTION:

GATCTTAAAT GTTATATTGA TAACCATGCT CAGCAATGAG CTATTAGATT CATTTTGGGA 60
AATCTCCATA ATTTCAATTT GTAACTTTG TTAAGACCTG TCTACATTGT TATATGTGTG 120
TGACTTGAGT AATGTTATCA ACGTTTTTGT AAATATTTAC TATGTTTTTC TATTAGCTAA 180
ATTCCAACAA TTTGTACTT TAATAAATG TTCTAAACAT TGCAAA 226

SEQ ID NO:1134

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01280

SEQUENCE DESCRIPTION:

GATCTTTACC AAATTCCTGA CTCAGAGTTC CTCCATTTN CTTCTGACTC TCATTTTATT 60
CTTACCTCTC ATTTTATTCT TATGATGTTT ACCATTTCTN TTCTCCTCAG TGTCCCTCTC 120

TGAGTGGTAA GAGTATGTTA ATAAGCCAGT NCTGAGACCG GAGCACGAGG CAACTGCTCA 180
ATGTTGGTCA TTGTCACTGT TATTAAATGT AACTTAAGGG NNAAA 225

SEQ ID NO:1135

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01281

SEQUENCE DESCRIPTION:

GATCTGACTT AAAAACCAC CAGCATGCTC AATCCCTTGT NATCCTTATG GAATCTGTAT 60
GTTAACTCTC TGGGTGTTCA GGCTTCTATT TGACTGCTGT TGTNACCCTG TTTGCAAAAT 120
GAATATGACA CTCTGTGGAT TATTTNCTCT GTAAGGCACA AGTNCTTCTN ATGATTANTT 180
TGACGTTTCA NGAGCAAAAG CAAATTNANA CTCTCTCAG CAAA 224

SEQ ID NO:1136

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01282

SEQUENCE DESCRIPTION:

GATCCAATAG GAGACACCAG TTCCTTGACT GANCCATGCC CCCACCTAAG TNACAAAATG 60
AGGGAAGTGG GGAGTTAGAT TTCAGAGTCC AGGCCCTAG GTTGGGACCC ACTCCAAATA 120
ATCTCCTCGG TGTGGGTNGT GGTCTATAG AGGNATANAT GAATAATAAA CATTGTATAA 180
NTATACGATA ATGNATAAAG TAATCCTTTC ATCANNTGTG AAA 223

SEQ ID NO:1137

LENGTH:222

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01283

SEQUENCE DESCRIPTION:

GATCCATCCG ATGGCCTACC AGCTGCAGCT CCAAGCCGCC AGCAACTTCA AGAGCCCAGT 60
CAAGACGATT CGGTGATTCC CTCCTCCACC TGCCTGCAG TCTTTGACTT TTCCTTTCTT 120
TTTTGCCACC CTTTCAGGAA CCCTGTATGG TTTNAGTTT AAATTAAAGG AGTCGTTATC 180
GTGGTGGGAA TATGAAATAA AGTAGAAGAA AAGGCCATGA AA 222

SEQ ID NO:1138

LENGTH:432

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01284

SEQUENCE DESCRIPTION:

GATCGCATAT CCCTGCGCCC CCATGCCCCC ATGCCCTCT GAGTCACACA GGACAGAGGA 60
GGCAGAGCTT CTGCCCCTG TTATCTTCAC TTTCTTTGTC CAGTCTTTTG TTTTAAATAA 120
GCAGTGACCC TCCCTACTCT TCTTTTAAAT GATTTTNGTA GTTGATTTGT CTGAACTGTG 180

GCNACTGTGC ATTCCTTGAA TAATCACTTG TAAAAATTGT CAGTGCTTGA NGCTGTTTCC 240
 TTTACTCACA TTGAAGGGAC TTCGTTGGTT TTTNGGAGTC TTGGTTGTGA CNNCAAGAGC 300
 AGAGTGAGGA AGACCCCAAA GCATAGACTC GGGTACTGTG ATGATGGCTG CAGTCCAGTT 360
 TTTATGATTC TGCTTTTAT GTGTCCCTTG ATACCAGTGG NCTTANCAAT TATACATTNC 420
 CTCATANTTA AA 432

SEQ ID NO:1139

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01285

SEQUENCE DESCRIPTION:

GATCAGACCC AGAGAAAAGT AGTTGTCAGT CATAGCACAC ATCGGACATT TGGAAAACAG 60
 CAGTGGCAAC AACTGTATGA CACACTTAAT GCCTGGAAAC AAAATCTGAA CAAAGTGAAA 120
 AACAGCCTTT TGAGTCTTTC TGATACCTGA GTTTTATGC TTATAATTTT TGTTCCTTGA 180
 AAAAAAGCC CTAAATCATA GTAAACATT ATANNCTAAA 220

SEQ ID NO:1140

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01286

SEQUENCE DESCRIPTION:

GATCTTGGGG CCTGTTTTCC CATGGGATTC AAGAGGGACA GCCCCAGCTT TTTTGTGTTT 60
 TAAGCTTAGG AATCGCCTTT ATGGAAGGG CTATGTGGGA GANTCAGCTA TCTGTNTGG 120
 TTTTGTGAG ACCTCAGATG TGTNTTCAGC AGGNCTGAAA NCTTTNTNC TTTAATAATG 180
 AGAAATGTAT ATTTTACTAA TAAATTATTN ACCGAGAAA 219

SEQ ID NO:1141

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01287

SEQUENCE DESCRIPTION:

GATCTAGAGA CAAAGGATAC TCAATGAGGA GCTTTTTTCC CCTCTTGGA CAGGTAAAAT 60
 GCTTTTCCTT ATTAATATAA TTATAAAACA GTATTTTATG TAACAGCTAT TCCCATATTC 120
 TAGGAGTGGC CTAAGAAATG CGTGTTCAG TGACTAGATT ATAAATATNC TCTATTGTGA 180
 ATAGTTGAAT AAAACAGCTG TTTTTTCTG CTCCTAAA 219

SEQ ID NO:1142

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01288

SEQUENCE DESCRIPTION:

GATCTGTGAA ATGCTATCTC TCCTGANGCA ATACTGTTGA CCAGAAAGGA CACTCCATAT 60
TGTGAAACCG GCCTAATTTT TCTGACTGAT ATGGAAACGA TTGCCAACAC ATACTTCTAC 120
TTTTAAATAA ACAACTTTGA TGATGTAAC TACCTTCCA GAGTTATGGA AATTTTGTCC 180
CCATGTAATG AATAAATTGT ATGTATTTT CTCTATAAA 219

SEQ ID NO:1143

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01289

SEQUENCE DESCRIPTION:

GATCCCTGGA CACTTACGTA CAATGCTTCG TNCTGCCTGA TGACAGCCGG GCCAGCCGCC 60
AGCNTACAAG GNTGTNCGA CGCAGCCTCA GCCCTGTNTT CAATCACACC ATGGTGTACG 120
ATGGCTTTGG GCCTGCTGAC CTGCGCCAGG CTTGTNCCGA GCTCTCCCTC TGGGACCATG 180
GGGCCCTGGG CAACCGNCAG NTNGGGAGGC ACACGCNTN 219

SEQ ID NO:1144

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01290

SEQUENCE DESCRIPTION:

GATCTCGGTG CTTCTTCCTG TGCTGTGGTT TACCCCAAAC CTTTAGGTTG TTTATTCATT 60
CAGATTAGAT AGACTGGAGC CATAAAGTTA ATTTGCACCT AGCTTTTGG AGAATAGCCA 120
TGATTAAGTG CTATTCGTGG TGGGGGTGGG GGGGAACCTT ATGATTTACT ATGCAGATGA 180
AGAGGGTAGG AACTAAATAA AGGACTTTGT AAGCCAAA 218

SEQ ID NO:1145

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01291

SEQUENCE DESCRIPTION:

GATCAAGAGG GAGTTCATGC AACACCTGAG AATCTGATTA ATGCACTGAA TAAGTCTGGA 60
TTAAGTGACC TTGCAGAAAG TCTAACTAAT GACAATGAGA CAAATAGTTA GCTTCTTTT 120
TTTTTCTTTT TATTAAANCT GNGATAGATT TTNTACCAA GCAGCATTTG ATAAGAGGTC 180
CACTGGTTTT GGTAANCAAT AANCATTTTT ATACCAAA 218

SEQ ID NO:1146

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01292

SEQUENCE DESCRIPTION:

GATCCCCAGC TGTTTATGCA TAGATAATCT CTCCATTCCC GTGGAACGTT TTCCTGTTC 60

TTAAGACGTG ATTTTGCTGT AGAAGATGGC ACTTATAACC AAAGCCCCAA GTGGTATAGA 120
AATGCTGGTT TTTCAGTTTT CAGGAGTGGG TTGATTTTCAG CACCTACAGT GTACAGTCTT 180
GTATTAAGTT GTTAATAAAA GTACATGTTA AACTTAAA 218

SEQ ID NO:1147

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01293

SEQUENCE DESCRIPTION:

GATCCTATCC AGTTGAGGAA TGCTTGCAAT GCTCATTGAA GGGATTTGCT TTGGGACTTT 60
GTCATCTTCC AGAAAGGAAA CATATTGTAT ATTTGGCCCA GTGTGATTGA TTGCTTTATC 120
TTTGTAAC TTTACTTGAA TGGGATTTGC TGAATTAATG ACTATTGAAT TAAAACTAA 180
TTATGAGTTG ACAAATAAAT AAAAGGTAGT GTTTAAA 217

SEQ ID NO:1148

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01294

SEQUENCE DESCRIPTION:

GATCATAGTC AGAAAGTACT GCAGTTAACA GGAACCTTCT TGTTCAGGCT GTCATAGCCA 60
CAGTTGCAAA AAGTGCAGTA TTGATTAATG CAATNAGTGC AATNAGTGAC ATCCTGAGTC 120
TTTTATCTGT TNAGCTTGCT NTNCTNTTCT NTCATACATC AGGATATTGC CTGTAATGTG 180
GAGTGGACAG GATAAAAATA AGNATTTTAC TTTCAAA 217

SEQ ID NO:1149

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01295

SEQUENCE DESCRIPTION:

GATCTGAAGA AAGCTTTTGG TGCTTGTCCT CACAACCACC TCAGTCCTCC CTCCTGTCC 60
TCCCCTGTCT CCTTTCCTCC TCCTGGGTTC ATGTTGTAAT AAAAGAAGAT TGTTGGTGTG 120
TAAA 124

SEQ ID NO:1150

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01296

SEQUENCE DESCRIPTION:

GATCATAGCT TGTTTTATTT TGTGCTATAA AATTAACAGT ATTAAATGAC TTATATTCTT 60
AGAATACATC GAGTGTCTTT TCTTAACAGA TTAGTGCCTT TTNATTTTGG TATTCCGTTT 120
TACGTTACTG GTCCCAGCAT CAAAACCCTT GTTTCATGG CCTGTTTGTA TATTGTCTCA 180

ATAAACTTG CATCAGCCGG TGGTGGCGGC AGAAA

215

SEQ ID NO:1151

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01297

SEQUENCE DESCRIPTION:

GATCATAGTG TTTTGAATC ATTTAATGTC TGCAGCCAAA TTTTAAAGG TAATTTAGAC 60
CTAATACTGC TCTTGCTGTG TCTTATTAAG TTAAATTA TGAATGANTN CTGGTAAAAA 120
TTCANNNGG CACTCTGTGA GTAGAGAGTA TCATTTAAGC TTATTTNAGT CACATGTAGT 180
ATATATCTCC TTAAAGCTGT CACTCTCACT TTNCTTACCA TTCTCTTGAT TTNNTCAGAA 240
NCCATCTAGT CATCATCTTT ATACTCTACC TGCTTCTGCA ATTGTATATC ANATNGNGN 299

SEQ ID NO:1152

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01298

SEQUENCE DESCRIPTION:

GATCAAAGTT TAATTGCTTC ATTTTGTGTT AAAAAGGGAT ACTGATGTCA GAAAATCTGT 60
AATATGTTTT ATTCAAAAGA GTAAATAAT GTATACAGAC TTGTATGTGA TGGGATGGGA 120
AATATTTAAA TNCTAGGTGT TTTTTTTTTT TTNAANGNGG AACCNCAATG TTTATAGGAA 180
AAAANTGATT AANTNGTTCC GTTTGGCCNT GAAA 214

SEQ ID NO:1153

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01299

SEQUENCE DESCRIPTION:

GATCCCTCTC CTCGCCTGCC TTCTGGAAGA CTTCAGAAGA TTGAGCCTCA CTGGTGCCAG 60
GAAGCCAAAG CTTACTTTGT AGAACTGACA CTAAACTACC CGAAGACTTA GGTGCTTTGT 120
GTACTTAACC CCAGGACCTN CTTACTTTTT AATATAAAGA GTGATGTTGT ATTCGTGTT 180
CTGCACTTTT TAATATAAAG AGTGATGTTG TAAA 214

SEQ ID NO:1154

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01300

SEQUENCE DESCRIPTION:

GATCCCAAAG CCACGCTCAT CCAATCCTGG NGAATCATTT ATTTGAATA TAGACCATTG 60
AATAGGTGAA AAATGGAAAA GTCACTTTTT GTACATTTGC ATTCCTTCAA TAATGATTAC 120
CATTTGTNCA CATATTTGTT GACCATTGGA ATTGATTTTA GCACAGTGCC TAAAATATAG 180

00593

TAGGTGCTCA ATAAATATTT GTTAATTGAA TAAA

214

SEQ ID NO:1155

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01301

SEQUENCE DESCRIPTION:

GATCCAAACT AATAAGAATA AGCTGTACAG GAACTAGTGC TCAATATACA TTGTATAAAT 60
TTGTGGAAAT CTCTTGATG TNAATTGTGA CTTCAAGTGG CTTTATTAA GATTNCTCA 120
GACTTACTTG GAGGTTAAAG CAAACCCAAA TGTGTATTAT TTTGTTACAG AGCTCTGCTT 180
TATAATTTTG TAATAAGTT TCAATACAGA CAAA 214

SEQ ID NO:1156

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01302

SEQUENCE DESCRIPTION:

GATCGCAGTG GAAGAAGATT AGTGCATCAT TGAGAGAGGA GAAGTGGAGT GTGGGGTGAG 60
CAAAAGCCAA AATACTAATC ACTAGTACAC CAGAGATGCT CCACAAGGTA TGCTCCCCAC 120
GGTTTCTTCT CAATTTCAA GGTNAAGATG TTTTTTGTG GTGATATAAA ATTTATTGTG 180
AATACTTGGT CCATNAAATT GGTACTTGCT AAA 213

SEQ ID NO:1157

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01303

SEQUENCE DESCRIPTION:

GATCTTGTG AGGCATTTAG CTGCCATGCA CCTGTCCCC TTAATACTG GGCATTTTAA 60
AGCCATCTCA AGAGGCATCT TCTACATGTT TTGTACGCAT TAAAATAATT TCAAAGATAT 120
CTGAGAAAAG CCGATATTTG CCATTCTTCC TATATCCTGG AATATATCTT GCATCCTGAG 180
TTTATAATAA TAAATAATAT TCTACCTTGG AAA 213

SEQ ID NO:1158

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01304

SEQUENCE DESCRIPTION:

GATCTCATTT CAATTTCTTT ATTAGAGGGC CTTATTGATG TGTTCTAAGT CTTTCCAGAA 60
AAAACTATC CAGTGATTTA TATCCTGATT TCAACCAGTC ACTTAGCTGA TAATCACAGT 120
AAGAAGACTT CTGGTATTAT CTCTCTATCA GATAAGATTT TGTTAATGTA CTATTTTACT 180
CTTCAATAAA TAAACAGTT TATTATCTCA AA 212

SEQ ID NO:1159
LENGTH:212
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01305
SEQUENCE DESCRIPTION:
GATCTGGTCT GTTCCTGCGT CTGCGGANGG CCCTTGTCTC CCAGCTATCT ATAACCTTAG 60
CTAGAGTGTC GCCTGTGGG TTCCTGTTGC TGAGACTTCC TGGATGGAGC CGCCTCACCG 120
CCGGGCCCGT GGCCTGCNCG GANTGTGTCC AATAAAGTTC TTGGATGTGA AACTTAACA 180
ATTTTGTGTA ATAAAAATGG AGAAGCTCTA AA 212

SEQ ID NO:1160
LENGTH:211
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01306
SEQUENCE DESCRIPTION:
GATCCTTGGT GTGTAGTTCA GTCTTGCAGT ATACAAGCTT TTGTGTATAA ATGTTTTATG 60
ATATGATTCC CTGTATTTTG CAGGGGTTTT TTTCTCTTTT NCTTTTATAA TAAATATGTA 120
TATCAATATT TAAATNCAT CTTTGCTTTT TTTAGAGGAG TTTGTAATCA CCTATAACA 180
TGAAAATAAA CATTCCTTT TTAACATCAA A 211

SEQ ID NO:1161
LENGTH:210
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01307
SEQUENCE DESCRIPTION:
GATCCTGTAT ATGTGTGTTT TGGGGGAGCT ATGATAAGTT TTATGGCAAA CGGTTGGTAT 60
TGTTAACTTT TTATTGTCAT CAAAAGTTCA TAAAAGTCCT ATTAATCCCC ATATTCTNNN 120
NCTGCCCTTA ACTCTGGTAT ACACCAAAAA GAAATCTTTA CTTTCCTTGT TTTATCATT 180
TAAAATAAA GTATTTTGCT AGTATGGAAA 210

SEQ ID NO:1162
LENGTH:210
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01308
SEQUENCE DESCRIPTION:
GATCCGCCCA TGTNAGCCTC CCAAAGTGCT AGGGTTACAG GCATGAGCTA CCATGCCTGG 60
CAACAGCTTT CATATTTGTA AGTTTTTTTT CCTAGGTAAC CCAAGGTCTA TTGAAATTNC 120
ATATAGCTTT CTTNCTATT ACATATTTAA ATAGATTTNN CCTGATTNA GAAAAGCTGT 180
AGATTTTAT ATGTNAATCT TGTNTCCNTN 210

SEQ ID NO:1163
LENGTH:209
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01309
SEQUENCE DESCRIPTION:
GATCTNGGAC TCTNCCTCTC ACGACTGCGC CTTAGTCACT CAGACATACG GCGCANTGCA 60
GGAAAAGCCT ACACAGACGA CCTGGGTGCT GTGGGTGGCG CCTGCNTGGA GGACGAGCCA 120
GCNTCCTGCN CTGGATGAGG ACAGCGAGCA CCCGCCATNA TTCTNCGGAC TGA CTGAACT 180
TNACCTGTGA CCTCTTACCN GTGGAGCAN 209

SEQ ID NO:1164
LENGTH:209
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01310
SEQUENCE DESCRIPTION:
GATCACTNCA GGCCAGGNGT CCAAGACCAG CACGNCCAAC ATGGCAAAAC CCAGTCTGTA 60
CTAAAAATAG AAAAATTAGC TGGGCGTGGT GGC GTGTGCC TGCAATACCA GCTACTCAGA 120
AGGCTGNAGC AGGNTAATTG CTTGANCCTG GTAGGTGGAG GTTNCAGTGA GCTGANATCA 180
TGCCACTGNA CTCCAGCCTG GGTNACAGN 209

SEQ ID NO:1165
LENGTH:207
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01311
SEQUENCE DESCRIPTION:
GATCCTTACC GTCCTAGAGA GCAGACGCTT TCTGAAAAC ACTTGCTCCA AAAGACCCTC 60
TGAGTTAACG TTTCAGCTGT ATCATTAGAC TTGTATTAG AGCGTGTAC TTCCTCTGAA 120
CTGT TACTGC CTGAATGGAG TCCTGGACGA CATTGGGTTT TTCCTCTAGG AGAATACAAG 180
CCTTAATAAA CAATACTATT TAGCAAA 207

SEQ ID NO:1166
LENGTH:207
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01312
SEQUENCE DESCRIPTION:
GATCTGAACA AAGTCTGCAT TTNGTTAATA GTGTGGTACC AATGTTGGTT TCATAGTTTT 60
GGCCATTGTG CTGTGTATTT ATAAGATGCT AACATTAGGG ATAGCTGAAT GTGGTATATA 120
TAGGAACTCT GTGCTGAGTT TATAACTCCT CTGTATGTCT AAAACTATTT CAAAATAAAA 180
NGTTTAAAGG TAAAANAAAA GATTAAA 207

SEQ ID NO:1167

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01313

SEQUENCE DESCRIPTION:

GATCCAGCCA CCACTCTGAA ACTCATCACA TCTTCATTGA CAGGGAGGGA GCCCAGGACA 60
TATGTGTGGC TCATTGACCA GAAGGCTTTC TTAGTCCCAA CAGCCATGAA CCATGCACTT 120
ATGGATACCC AGCCTTTTAG GGCTACGTGA AATGCATCCT TGTANCATCA TTGTATTCTT 180
TCAATAAATA GCCTTCTGAG TTGAAA 206

SEQ ID NO:1168

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01314

SEQUENCE DESCRIPTION:

GATCTGCCTG CCTATNAGAG CTTTGAGAAG CTCGCCACA TGCTACTGTT GGCTATCCAG 60
GAGTGCTCTG AAGGCTTTGG GCTGGCCTAA TAAGGCCCTG CCCAACTCCG TGGGGTTTTT 120
TTAACCATTG TTGGACCTGG GGAGGGGGGA GTTAAAAAAA GAACCAGAAA GAAATTGTCA 180
AAAACCAATA AATGAAATCC ACCAACTCAC AAA 213

SEQ ID NO:1169

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01315

SEQUENCE DESCRIPTION:

GATCTAAAGT GACCTTGATG GACAGTGGA GAAATCACAA CATGGAATTC CTCGAATAAC 60
AATTTATTGA CTTTAAATAA TTTTGTCTAA TGCTACATAT ACACAATTAA AAAACCTTTA 120
CACTATTTCT AGAAAGTCAG CATGTATTTT TGGCTCGNNG TTCNCCNCG TGTTTTCTGT 180
GGAAGGAATA AAAATTTGAG TTTCAATTGT GTAAA 215

SEQ ID NO:1170

LENGTH:349

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01316

SEQUENCE DESCRIPTION:

GATCTGTGAC AGCAGCAGCT TCATGTTGTA TTTTTTTTAC TGAAATTGTA AAATATCCAT 60
CTTAAAGACA TCAACTATTC TAAAANTTGT TTACAGGATA TTCCTTTAGT GGTGGAATTA 120
AAATNTACGA NTACTTGCTT TTTCAAAAAA ATGTATTTTN TGTTAAAAGT TTAAAGATTT 180
TTGCTATATA TTATGGAAGA AAAATGTAAT CGTAAATATT AATTTTNTAC CTATATTGTG 240
CAATACTTGA AAAAAACGGT ATNGAAAGTA TTTTGAGTCA GTGTCTTACA TGTTAAGAGG 300
GACTGAAATA GTTTATATTA AGTTTGTATT AAANTTCTTT AAAATTAAA 349

SEQ ID NO:1171

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01317

SEQUENCE DESCRIPTION:

GATCCAAGCT GTATATACCA TATATAAACA TTTTACATGA ATCATTTAGT TTTTAAATTC 60
ATTTACTAAT GCTATAAAAT TTCCTATATT ACCCCAGTAA TTTGCATCAG CTGGTTTATA 120
TACTAAAGCA ACATGTTTTG ATGAGTTTCT TACATCCTTA TCGAGGAATT GGGTTAGGAA 180
AAAATACATA ATTGTAAAC TGAAA 205

SEQ ID NO:1172

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01318

SEQUENCE DESCRIPTION:

GATCTTCAGG NTTCTACAAA TAGGGTAATT GTAAATTTAA AGCATTAGCA TTTATTGGTG 60
AATAATGTAT ATATCCCAT TCCAAGAAAT ATAAGTNAGT NANGTTGAAA TAAAATCTTT 120
AAAATTTACT ATATTGCCAG TGGTTTCACA NCAGTTCTCT TGTATTTATT TATCAATTAA 180
ATCAAATAAA AATGATTATG TCAAA 205

SEQ ID NO:1173

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01319

SEQUENCE DESCRIPTION:

GATCCCCTGA CCTGCATTAC CTTGGTAACC ATTTCATTTT TTAATTTAAT TTCATTTTTT 60
AATTTTGGTG TACAAGCTGT AACATTTTCAT CTTTCAAAGT GTAACACGCT GATTTCTCTCA 120
AATAGAGATA CCCCTTTGAG TGATAAATTT GCAAAATGCT GTCTTCATTT TCTGTATTAA 180
AATTCATTTT AGTTTTAAAA TAAA 204

SEQ ID NO:1174

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01320

SEQUENCE DESCRIPTION:

GATCAGAGCT GCTGAGTTCA GGATGCCTGN GNGTGGTTAG GGTAGCTTCT TACATGGATG 60
TCAGGAGAGC TGCTGCCCTT GGCCTGAGTG CGTATTCAGG TGTTTTGCTG CTTTGGCAGA 120
GAGTGGTTGA GTGTNGAATC GTTCAGCTCT NAGGTTCTGT NCCCTGTGGT GGAGAGGACG 180
CAGCAGCNAN NTCTGGGNTC TNAN 204

SEQ ID NO:1175

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01321

SEQUENCE DESCRIPTION:

GATCAGTGCT CTCTATTGAT GTTCTTGCTG GTCTCCAGNC ACATTCCTGT TGCATTAAGN 60
CTTGAAAGAC TTGTAGATGT GTGATGTTCA GGCACAGGAT GCTGNAAGTA TGTACTATT 120
CTNAGTTTGT AAATTGTCCT TTTGATACCA TCATCTNGTT TTCTTTTGT AGGTATAAAT 180
AAAANCACTG TTGNCANTAA GGAAA 205

SEQ ID NO:1176

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01322

SEQUENCE DESCRIPTION:

GATCTCAGCC ATAAAGTGCC AGTTTGCTTA GTTCTCACTG TCTCCTGGTC TGTGCTGCCC 60
TGCTCTGGGG ATGCACGGCG GCAGGGTGGG GGAGGGAGGT TCCTCGCAGG TCTCAGCCCC 120
GGACAGGGTC TTGCAAGCAG CCTCCTGGGC AGTCGTAAGG GTTGCGGCGT GATGTCTTCA 180
ATAAATTAAG TTTTATTTGG AAA 203

SEQ ID NO:1177

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01323

SEQUENCE DESCRIPTION:

GATCAAAATG AAACAAATAT ACCTTATCCT AAAGAGCTCA TAACAAATAA GTTACCTCCA 60
CTCTATAAAC TCAGACCTAC TTTTGAAGA TAACTGCTTT TAACCTCTCC TTACAAGATT 120
TTTGTGTGTT ATGTATTTAA TTTAGCCCA TGTCTCAATT CTCATTTTCA AAGAATCAAT 180
ATATTAATAT ACCTTTGGTC AAA 203

SEQ ID NO:1178

LENGTH:202

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01324

SEQUENCE DESCRIPTION:

GATCGCTCTT GTGTTTTTGC ACTATTAATT AACTTCAAGT GCAATTTTGG CAGGCAGGCC 60
AAGGGTCTCA ACAGGCTATT TGGAATGAGT TCTCTTTTAA GGCCTTCAAC GTAGTNNGAC 120
ATTTTCAAAT CAAAAAGTAC AGCAGGAGCC AGCCTTTATT TTGTCTGTGT ACACAATAAA 180
ATATTCCGCT TCTATAGGCA AA 202

SEQ ID NO:1179

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01325

SEQUENCE DESCRIPTION:

GATCAGCTGA AGGTTTCATGG GTTTAAAGTG CTTGTGGCTC ACTGAAGCTT AAGTTAGGAT 60
TTCNTTGCAA TGAGTAGAAT TTCCCTTCTT TCCCTTGTC AAGGTTTAAA AACCTCACAG 120
CTTGATAAT GTAACCATTT GGGGTCCGCT TTTAACTTGG ACTAGTGTA CTCCTTCATG 180
CAATAAACTG AAAAGAGCCA TGCTGTCTAA A 211

SEQ ID NO:1180

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01326

SEQUENCE DESCRIPTION:

GATCCCAGGG TGCAAAGTGG CATTGAGACA GCAGCAACAG CTCAAGAGAT ATCTCCTGCC 60
TACTTGCCCC TCCTTCCAGG CCGGCTCTAA GAGAAAGGCC CATCTACTCA GGAAGAGGGC 120
CAGGNCCTTG GGTCTG GGGG ATTGGCCCT GAGAGGGCTA GTCCTGTGGC TGAAAATAAA 180
GCATGTCCCG CCCNNTAAA 199

SEQ ID NO:1181

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01327

SEQUENCE DESCRIPTION:

GATCTTTTTT TGGATATTTA TACTTTTAGA TATATAGTAC CTTTAAGTAG CAGTATGGGA 60
CAAGGCTTGT AAATGTTTTG TCTAATGTTT TATTGTCACC TTTTATGCAT TTATCACTTC 120
CAAATCTAAC TTTGCACAAG TAACCCATGT AAAAAAAT GTACATTTTT CAAAAGTTGT 180
AAATAAAAAT AACCTTAAA 199

SEQ ID NO:1182

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01328

SEQUENCE DESCRIPTION:

GATCTGGACA GCTGTCCCTC CACTACAGAA ACCTCACAGA ACACAGCAAA GNATAAGTGC 60
ANGAAGGCTG CTTCCAGCTC CAAAGCACCT ANGAATGGAG GTAAAGCGAA GGATTCAGCA 120
ANGACAGCAG AGGAACTTC CANGCCAAAA GNTGACTAAA GNAGTACAGG TTANGGTATC 180
TGGTATCTGC ATGTAGANTC TTCAGCTGGT GGATGGTGAC TTTTGAAGTA CNAAGGCTT 240
TGGCAACNGN AN 252

SEQ ID NO:1183

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01329

SEQUENCE DESCRIPTION:

GATCTAGGGA GTTACCTAGC AGACCTTCCG GACTGACGTG ATGCTACAGG GGTCCCCTCT 60
TTCCTTGTC A TTGAGCTATT TTACAGTTCT GTGAATTGTA AAGAACTGAG GGTAATGCCA 120
ATNACTCTTG TTCATAGAGG CAAATGAATT TTGTCCCATG GAGATTTAAT TGATATTACT 180
CTGTGGATGT TGACAAA 197

SEQ ID NO:1184

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01330

SEQUENCE DESCRIPTION:

GATCATAGCT ACTACTTCAT TGCAACCTTT ATTAAGTGAC CACATCAGAC ATCATGCTAA 60
ATACCTGAAT GCATGAAAAA ACTCCAAATA AGAGAATCTC TTCAGGATTA TAAAAGTTGT 120
AAAATGCAAC TGTATTGCTG AGCAAA 146

SEQ ID NO:1185

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01331

SEQUENCE DESCRIPTION:

GATCCGGCTG CACACCAGGT GCGGAGGCTG AGCCATCCCT GCTGGACTCC CTACCGCAGA 60
CGGAGTCANG NACGCAGCCG CAGCCNCNTT CCTTCACACC CCCTCACAGA CTCCTTGTGT 120
CCAACGGGAA TAGGAAGAAT TAGTTACTGA CTTACCTGA GAAAAAATA AATNCTCTAT 180
GGTGGTTTCA CAGGAAA 197

SEQ ID NO:1186

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01332

SEQUENCE DESCRIPTION:

GATCTCTTTG TGAAGTCTGT GTTCTCTATA TTAGATTGCT GTTTATATGT AAGAATTTTA 60
TTGCTTATGT GGCATACAAT ATTTATAACT ATAACTTTA TAGAAGTACA GTATTAAAGT 120
CAGTGGTACA CAGACATTCT GTACATATCC TGTGAAACGT GCTGTCATAT GAAATAAATA 180
TATCTGTCTT TACAAA 196

SEQ ID NO:1187

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

00601

CLONE:HUMGS01333

SEQUENCE DESCRIPTION:

GATCTTCCCC ATTGTCCACT CAAGTCGTGG CCTGGGGAAC ACAGACGGAG CTGTCCCCAG 60
TGTCCTCCGT CCCTCAGCCC CTGGCCTGGC TGAGTTTGGC AGGGCCTGGG CCATCCCTGG 120
GACAAAGGTG CGTCCCTTCA GCTCTTCTCC GTGGAGCTCG GGGCTTTCTG TATTTATGTA 180
TTTGTACGAA TGTAAG 196

SEQ ID NO:1188

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01334

SEQUENCE DESCRIPTION:

GATCTTCGGC CTCATTCTGA ATACCTNTTC TTTGGACAGT NTTTTTCCTT TGGTGCTCTC 60
TTGCCTTTAG CTACCTTCTC TAATATGTAT GCTACCATCA CTAATAAAGT GATGGGAATG 120
GGTTTGAGAG TCGTAATTTA TATTAAAAAG TTGTTGGACT TTAAATACA TTTTNCATA 180
TAAAAAATTA AGCAAA 196

SEQ ID NO:1189

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01335

SEQUENCE DESCRIPTION:

GATCATGTGT GCACAATACT TGTGGCCAC AAAATTTTAC AATGACTGCT GAGGAATCAT 60
TCTTTTGGC TGTAATAATAT AACAAAGGGC ATCATTAAGT AGACCAGGTA ATTACTGCTT 120
GTNTCTCAAG GCTGCTGTCT TTATCAGCAC TAACTAAATA AATTGTTGG TTCAGTTGTA 180
CTTGTCTGC AAA 193

SEQ ID NO:1190

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01336

SEQUENCE DESCRIPTION:

GATCCTGTGT CCTAAATTAA TATACACCAG TGGTTCCTCC TCCCTGGTAA AGACTAATGC 60
TCAGATGCTG TTTACGGATA TTTATATTCT AGTCTCACTC TCTTGTTCCA CCCTTCTTCT 120
CTTCCCCATT CCCAACTCCA GCTAAAATAT GGGAAGGGAG AACCCCAAT AAAACTGCCA 180
TGGNCTTTTA AA 192

SEQ ID NO:1191

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01337

SEQUENCE DESCRIPTION:

GATCAGTGCC TTGATGCCAA CTAAGGAAAT TTGTTTAGCA TTGAATCTCT GAAGGCTCTA 60
 TGAAAGGAAT AGCATGATGT GCTGTTAGAA TCAGATGTGA CTGCTAAAAT TTACATGTTG 120
 TGATGTAAAT TGTGTAGAAA ACCATTAAAT CATTCAAAAT AATAAACTAT TTTTATTAGA 180
 GAATGTAAA 189

SEQ ID NO:1192

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01338

SEQUENCE DESCRIPTION:

GATCAAATTT TTGTAATAATT TTTTAAGAAG AGATGGCTTA TTAACAGGGA AGAAGCTTGT 60
 NATATTCCAG TTGTAAGAAT AGCCTTAGTG TTTAGATTTT TTNATGATAG GNNAGATGCG 120
 GNCATCACTG GGATATTTNC AAATCCCAAG GNCATCAGAG TGAAGTGTCA GTTGTCAGAT 180
 GATTNNAN 189

SEQ ID NO:1193

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01339

SEQUENCE DESCRIPTION:

GATCCCAGCC AGGCCCTGGA GGTCTGACAG CCCCTCCCTC CCAGAGCTGG TTCCTCCCTG 60
 GGAGGGCAAC TTCAGGGCTG GCCACCCCCC GTGTTCCCCA TCCTCAGTTG AAGTTTGATG 120
 AATTNANGTC GGGCCTCTAT GCCAACTGGT TCCTTTTGTT CTCAATAAAT GTTGGGTTTG 180
 GTAATAAA 188

SEQ ID NO:1194

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01340

SEQUENCE DESCRIPTION:

GATCTGAATG ATACTGTCTG CTGTGTCTTT TTTCCATGAG AAATCACTGT TGCAAATTGC 60
 CTATAAATTG ACTCTACTAA AATAACAATG TTTCAGTCTG AAAATTTGAA TTGAAAAAAA 120
 TGTATAATAT AAAATTGTAA TACTCTCAA TGATTATAAA AGTAAAAGTT GGTAATTTAG 180
 GCAGAAA 187

SEQ ID NO:1195

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01341

SEQUENCE DESCRIPTION:

GATCAGGGGG GAAATGGAAT GAGTGAGGCG GGCCAGGGAG CCGCTCAGCT CCAATCTTTG 60
TCACTGTGTG AAATGTGGAC TTGGTATGAC CTGACTGTCC AATTTTCAAG ATGAACCAGA 120
AATCCAGACC NTTATATAAA ATCTCCTGGA TTTTAAATG TTGGCAATTA ATCAGAATGT 180
TTTTAAA 187

SEQ ID NO:1196

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01342

SEQUENCE DESCRIPTION:

GATCACTTAA TTCCTTTCTT ATCTTCCCC TCACTTCCTT TTCTCCACC CTCTTTTCCA 60
AGCTGTTTCG TTTGAATATA TTACTGGAAT GAGTTGCAGG NAATGCAGCA NACTTGTTTC 120
NCCTAGATTG GAGTCAAACCT CCTGNTCAAA GAATCGGTNG GGCATANAAG AAATNTTCTT 180
NTTAAA 186

SEQ ID NO:1197

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01343

SEQUENCE DESCRIPTION:

GATCTTTTAA ATGACAGTAC AGACTGAGAT TTGAAGGAAA CATGCACAAA TCTGTAAAAC 60
ATAGACCTTC GCTTTATTTT TGTAAGTATC ACCTGCCACC ATGTTTTGTA ATTTGAGGGT 120
CTTGATTTC A CATTGTCGG TGAAGAAAAT TTTCAATAAA TATGTATTAC CCGTCTGAAG 180
CTTAAA 186

SEQ ID NO:1198

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01344

SEQUENCE DESCRIPTION:

GATCTTCAGG TATTTTAAAT TTTAGTTACA TCAATTAATG TAAATNAATC CAAATGCTAA 60
TTTTTGTTGT GCAAGAAGTT TCTTATGTAA ATNCAGGGTA TGGATAAGCT AATTAAGATA 120
TCCATCTTTG GTGGCTCTAA GTGTATTATT TGTNTTTAA TAAAGTGTAC AAATATAGAT 180
AACAAA 186

SEQ ID NO:1199

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01345

SEQUENCE DESCRIPTION:

GATCTAAACA CGAGGAAACA TTATTCATTG GAAAAGTGCA TGGTGTGTAT TTNAGGGATT 60

ATNAGCTTCT TTCAAGGGCT AAGGCTGCAG AGATATTTC TCCAGGAATC GTGTTTCAAT 120
TGTAACCAAG AAATTTCAT TTGTNCTCA TGAACCAAAA CTTCTGGTTT TTTTCATGTG 180
GAAA 184

SEQ ID NO:1200

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01346

SEQUENCE DESCRIPTION:

GATCGCCCGC CCCAGCCCGG GGCCGCTCAG GTCTGCTTGG AGGATGCCTC CCCCAGGAGG 60
GCAGTGAGGG ATGCCGCAAC CTCGACTTCT CAGCCTCCTG GGGTTCCGCC GGCCAACACT 120
GTCTGTNTCA AATACTGTGC TGTGAGTTGT TTCAATAAAG GGGCCCAAG GGCTGGGCTG 180
AAA 183

SEQ ID NO:1201

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01347

SEQUENCE DESCRIPTION:

GATCTCTGCT CAGCTTCCCT TGCCTTTTAA GGCCTGCCCT AGCCAGGGTT CCCTCCTGCT 60
TCCAGTACCC TCTCATGGCA TAGGNTGCAA CCCAGCAGAG GGCAGCTAGA TGGACATTTT 120
CCCTGCTCGG AAGGGTTNGC CTGCCTGGCT GGGNGGTCA GTAAACTTTG AATAGTAAGC 180
CAAA 184

SEQ ID NO:1202

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01348

SEQUENCE DESCRIPTION:

GATCCCCTTT GGTTTTACTA CCAAATCTA AATAGATACT TTTGATAATA GATAACTGCT 60
CTTTTACTAA GACATAGTCT CTACCTATAG AAATGTATTT TGAACAACT TATTTTACAC 120
AGCAATTTTG TATCCATTTA AACTAACCTT TTATCAATAA AGCACTATTG TTTAGATATT 180
AAA 183

SEQ ID NO:1203

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01349

SEQUENCE DESCRIPTION:

GATCTCATTC TCCCTTTTAA TCCTGAGTTA CCATCAGTGC TAATGTTTCT CTTTGGGTA 60
TAGTTCTCCA GGAGAACTTG TCCTATATTT NTTTGTGTGT GTTTTTTCC TTCCAGCTTA 120

AACAAATTAA AACTAAATAT CTAAACCTTG TATACAGACA TTAAAATTAG TGAGAGAAAC 180
AAA 183

SEQ ID NO:1204

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01350

SEQUENCE DESCRIPTION:

GATCTGCTTT TNCTATTTCT CCCAACCAAA TCCTCTTAAA GACCCTTTGC TATGTAGTCT 60
CATGGTCTAG CATGCATCTT GTAGAAACAA GGCATNCTGG CAGATTGCAG GGTGAGATG 120
TGTTTATCT GTTTATATT TAAAAGATT CTGCCAGAAA ATAAAACCAG ACCTTGTCT 180
AAA 183

SEQ ID NO:1205

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01351

SEQUENCE DESCRIPTION:

GATCTGAATA GAGAAATGCT TACAGATAAT CATTAGCCCA CATACCAGTA ACTTATACTT 60
AAAGATGGGA TGGAGTTGTA AAGTGCTTTT ATAATACAAT ATAATTGTGA AAGGCAAGGG 120
TTGACTCTTT GTTTATTTT GACATGGCAT GTCCTGAAAT AAATATTGAT TCAATATGGC 180
AAA 183

SEQ ID NO:1206

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01352

SEQUENCE DESCRIPTION:

GATCCTTGGG GGCCAGGGTG AAGGGTATTT TACGGGAACT CTATAAGCA GGAAGAAGCA 60
AGTTTATTCT TTAGACCAGT AGCTCTCAAC CATGATGTGG TCGTATATTT ATGGGTCAAC 120
ATGTGTTGTG GGGATATCCC AAGTAACTTG TTATTAATAA AAGTTAAGTT GCAAAATTTA 180
AA 182

SEQ ID NO:1207

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01353

SEQUENCE DESCRIPTION:

GATCAAAATT GAAGACACAT TCAGAGGTTT GATTGGTTGA GATTAAGTGG TGTGGTGGTT 60
GGTGTATGTA TGTTTNAATT TNATGTCTTT GTATGTAGTT CTACATAATG CAAATTGTGC 120
TTTCTGATGG ACAAGACCTC ATAAGTGTGA TTAATATCAA TAAAAAGGGG ATGTTGTGGA 180

AA

182

SEQ ID NO:1208

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01354

SEQUENCE DESCRIPTION:

GATCCGTCAA TCTGGGTGG AATNATTGTN CGCATTGGCG AGAAATATGT TGACATGTCT 60
GTCAAGACCA AGATTCAGAA GCTGGGCAGG GCTATGCGGG AGATTGTCTA AAAGTGTGG 120
TTTTCTGCCA TCAGTGAAAA TTCTTAAACT TGGAGCAACA ATAAANAGCT TCCAGAACAG 180
AAA 183

SEQ ID NO:1209

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01355

SEQUENCE DESCRIPTION:

GATCATGTTA TATTCTATAT CAGACAAACT ATTTTNTTTT GACCTTTCTT CCCCTCCATC 60
CAGTATTTTCG GTTGATTTC A TTTTCTCCCC TCTCTTCCCC TTCCACGAAC TGCAATACCA 120
GTAACCTTGG TATATATTTT TTGATACTGT ACACATGGAT GTNTTGTTTC TATGTGCAAA 180

SEQ ID NO:1210

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01356

SEQUENCE DESCRIPTION:

GATCAAAGAT TCTCCCCATC TCACAGACAA GGAAACTNAG GCCAGAGGGA GGAGAGAATT 60
GCTCATGGCT CCANAAGTGG TGGCAAGTTT CTCTGGACTC TTAGGTTTAT TTTNAATATG 120
AAATATAAAA NCAGTTTCAA ATATCTNATT GAGGGAGANG TAAACCTTA TTTAANCAAA 180

SEQ ID NO:1211

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01357

SEQUENCE DESCRIPTION:

GATCTATAAA ATGGAAGGTG ACCAATGTCA CTGCTTCTAA AATACTGTCC TAAACAACCC 60
AGAAGATTTT ATTTTCAGCTC ATGAATAGCT GTTCTAAATC TGTTGTATGT TAGACATACT 120
ATGAACTACC TCTTCACTTA TTATGGGGAA GTTTCCTTAA TAAAAGTGTG ACGATTAA 179

SEQ ID NO:1212

LENGTH:179

00607

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01358

SEQUENCE DESCRIPTION:

GATCCAAGAC CAGGGNGGTT GGGACGGCCT CCTNTCCTAC TTTGGGACGC CCACGTGGCA 60
GACCGTGACC ATCTTTTGG CGGGAGTNCT CACCGCCTCA TTCACCATCT GGAAGAAGAT 120
GGGCTGAGGC CCCAGCTGC NTTGGACTGT TTTTNCNC CATAAATNAN GGCATTTN 179

SEQ ID NO:1213

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01359

SEQUENCE DESCRIPTION:

GATCTGAGAT GTTCCTTAAC ATGTAGCCAT GTAATTAGAA CTCACAAGGG GCATTGAAAT 60
NTTTTCCTTT TTCANATAGT CTGGGGCTAT TTACTTATTT NAAGTAAGCC AAGTCTACCA 120
TTTGAAAAAT GGTGCTTTAT TTCCATATCT GANGCCTGAN GTTATTTNNN AGTTTGTN 178

SEQ ID NO:1214

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01360

SEQUENCE DESCRIPTION:

GATCTGGCAT CCNCAGGCTG CAGCTTTATT AGCTTATAAC TTACTCATCT CTATCTTTAC 60
CAGCAGGCTC TGTATTGTTG ATATTTGCAA CTNGNTTTC TTTCCATTG GTGGAATTGA 120
AATAATTAGT TTTNAATNAC ATAAGANGCC TGTTTGCTAT TNGGNGGAAG ATAGATGN 178

SEQ ID NO:1215

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01361

SEQUENCE DESCRIPTION:

GATCAAAGAG GTTATCTCTG CCAGTCACAA GTGTGGCTGG TGTCATTCTG GGTCTGACTG 60
GAGCCCTCCT GGACTGTTTC TTTAATTTC AAAGCCCTGC AGACATAGTA CCTGGTCAGA 120
ACTATGCCTC GGTTTATTTA TCATTTTGAA ATAAAATCAA AATTTCACC TGTAAG 176

SEQ ID NO:1216

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01362

SEQUENCE DESCRIPTION:

GATCAAAACA ATTACCTAAT TGCAAAAGAG AAAGTAAAT GGAACATAGT CTCANATTCT 60

NCTAATGTGT ATCTCACAAT GTCATGTAAT GTAAAGNAAA CCCTTTTGGG ATTAGAATTC 120
TTGTNCTGAA TGCTGAACTA TTTGGTAATA AAGTGCTTAT NTGCAGATAA CAGAAA 176

SEQ ID NO:1217

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01363

SEQUENCE DESCRIPTION:

GATCTGTGCT GGGGAACAAA GCTTTTGCAG TACCTTATAT TGTAGTTAAA ATTTTATTTA 60
ACATATCCTT CAGTGAGCTC ATTTCACACT GTAGCCTCTT CCTTAAAATT TGTGGTGCTC 120
CTGTAACAGT AAGANCTAAT TCTGAAATAA AAGACATCTC CTAATGCTGT GCAAA 175

SEQ ID NO:1218

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01364

SEQUENCE DESCRIPTION:

GATCAGGATA ATAATCTGCT TAGTAAGAGA AACAAATTGA ATTTTAGAAG GAAATTGCCT 60
TACCATTTCG AAATTAAGGT AATTAAAATA CAGTGAATTT CAAAATGCCT TTTTAATGAC 120
AATGTGTGAA CTTAATTTGT TTTAATAAAC CAAAATTGTT GTTATTGTGT TAAA 174

SEQ ID NO:1219

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01365

SEQUENCE DESCRIPTION:

GATCTGAGCA GGCAAAGCTC AAAAGAGAGT TTGGAGGTTA AAAATAATTT ATTTTGCAG 60
TAGTGTGCTT TGAAATGTGT AAATCTTATT TCTAATGTAT ACAACCACAT TTCACATAAA 120
AATATGCAAT TTATATGCCA GATAAAAATA AAACAAGTGA ATTTGCAAGT GAAA 174

SEQ ID NO:1220

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01366

SEQUENCE DESCRIPTION:

GATCAACATG ATGGTGACTG GGAAAAAATT ACTTCAAGTA ACATGCTTAG CTTTCCCTCC 60
TTAATGTGAA AAATCAAGGG CTTACTGACA TAGGAACAAC AGAAATGCTC CTGGAAGTTC 120
AAGTTGCTGA ATTATAAGTT TATTTTNNAT CAATAAATAT NNNNATACTN AAA 173

SEQ ID NO:1221

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01367

SEQUENCE DESCRIPTION:

GATCCATATT TAGTTTTATT AAGCTTTTCC CTGTTTTTAG TTTGTTTTG GGTTTTTTGG 60
CTCATGAATT TNATTTCTGT TTGTCGATAA GAAATGTAAG AGTGGAAATGT TAATAAATTT 120
CAGTTTAGTT CTGTAATGTC AAGAATTTAA GATTTAAAAA NCGGATTGGT TAAAAANTGC 180
TTCATATTTG AAAAAGCTGG GAATTGCTGT CTAAAA 216

SEQ ID NO:1222

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01368

SEQUENCE DESCRIPTION:

GATCGNCTCT GAACCATCCC NTTTCTGCTG CCCGGAGCTG GGAAGCTCG CTGTGGAGCG 60
TCTCGCACGT GGCAGGCAGG CAGAGAACTT GCTGCACCTT CTAGGAAATT GCAATCGATT 120
TGTAATGCAC TTTCGCTAAT TGGGAGTTCA AAATTAACT TTAATAAAGC AAA 173

SEQ ID NO:1223

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01369

SEQUENCE DESCRIPTION:

GATCTTAAGA GCAGACTTAA AGTAGCTTTG TACGCCTTAA TGTTCAATTTT GATTTATTTT 60
AAATCTTTAC ATTCAGAAAT NAGATACTGT ATTATCAGAC CAGGAGGCAT TGCTGTGAAA 120
GATAATNTCC TATTCTAAAA TATCAAATTT AAAATAAAGA TAATGAAAGA AACATAAA 179

SEQ ID NO:1224

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01370

SEQUENCE DESCRIPTION:

GATCCAAAAA TGGTAGCCAC TCACCCTTCA CAAACTGAAG TCCATGGACC ACGGAAGTCG 60
AGAATTAATG TACACCTGTA TCATGTGTAG GAAACCAGAA ATGTGTTTCT TATTTNTTGT 120
TCCCAAACAG GATTAAGTGT GAAGACTAAT TTATAAATGT GAACCTAAGA AA 172

SEQ ID NO:1225

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01371

SEQUENCE DESCRIPTION:

GATCAGCATG AGGACAGAAG GCAGGAGACT TTGGTCAGTT ACCTGGGAAT TCTGGGCTGC 60
CAGGAAACGA TTTGGGCCTC TGTCAGTTTC TTTTCCATGT ATGAGGAGGG GGAAATTTGT 120
ATATTAGAAA CTTATTCATC CCACTCAGGA CAATAAAAC GAATGTACAA AAAGCCAAA 179

SEQ ID NO:1226

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01372

SEQUENCE DESCRIPTION:

GATCACAGTG GCCACGNCCA GGCCACAGTC ATGGTGGCCA CGTCCACAGC CACTAATCAG 60
NAGNCCAGGC CACCCTGCCT CTACCCAACC AGGGCCCCGN GGCCTGTTAT GTCAAACTNT 120
CTTGGCTGTG GGNCTAGGGA CTGGGGCCAA ATAAAGTCTC TTCCTCCAAG TNAAG 175

SEQ ID NO:1227

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01373

SEQUENCE DESCRIPTION:

GATCTTTAAT CTCATGAAGT ACGACAGCTA CAGCCGCTTC TTAAAGTCTG ACTTGTTTTT 60
AAAACACAAG CGAACCGAGG AAGAGGAAGA AGATTTGCCT GATGCTCAAA CTGCAGCTAA 120
AAGAGCTTCC AGAATTTATA ACACATGAGC CCCCCAAAAG CCGGGACTGG CAGCTTTAAG 180
AAGCAAAGGA ATTTCTCTC AGGACCGTGC CGGGTTTATC ATTGCTTTGT TATTTGTAAG 240
GACTGAAATG TACAAAACCC TTCAATGGGA TGTGTGTTTT ATTAAGTCTC TCACCAGTAA 300
ATTTTGCATG ATGGGCTN 318

SEQ ID NO:1228

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01374

SEQUENCE DESCRIPTION:

GATCTGGAAG AGGCTTGTA CCTGAACTTC TGTGTGGTGG CAGTACTGTG GCCCACCAGT 60
GTAATCTCCC TGGATTAAGG CATTCTNAAA ANCTTAGGCT TGGCCTCTTT CACAAATNAG 120
GCCACGGCCT AAATAGGAAT NCCCTGGATT GTGGGNANGT GGGCGNAAGT N 171

SEQ ID NO:1229

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01375

SEQUENCE DESCRIPTION:

GATCTGATGG TTTTAAAAAG AGGAGTTTCC CTGCTCAAGC TCTCTCTCTT TGCCTGCTGC 60
CATCCATGTA AGATGTGACT TGCTCCTCCT TGCCATCTGC CATGATGTGA GGCTTCCCCA 120

GCCACGTGGA ACTGTAAGTC CAATTAAACC TCTTTTCTTT GTAAATTAAA 170

SEQ ID NO:1230

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01377

SEQUENCE DESCRIPTION:

GATCCATGGT GTTAGAAGCC AGGGGAACAG TTAACAGGGG AGGGATACTG GGGAGGGGCA 60
TCCTGGAGTG CTGGTCTACC TCATCTGGGT GTTGATTTC TGAAGTATTGT CAGTTTGTTC 120
CCAGACTCCC TGTGGGAGAT GTGGAAATAA AAACCACCTA ANCANGNAAA 170

SEQ ID NO:1231

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01378

SEQUENCE DESCRIPTION:

GATCCATCAC AAAGCGAAGT CATGGGAGAG CCACACTTGA TGGTGGAATA TAAACTTGGT 60
TTACTGTAAT AGTGTGCTGT TCATGGAAAC CGAGGGCTGC ATCTTGTTTA TAGTCATCTT 120
TGTACTGTAA TTTGATGTAC ACAACATTAA AAGTACTGAC ACCTGAGAAA 170

SEQ ID NO:1232

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01379

SEQUENCE DESCRIPTION:

GATCTGGGAT GGAATATGGT TTTCTTGATT CCCTTTCAGC CTCATTTCT CTCTCTCAGG 60
ACTACTACTT TTAAATTACT TTCACTTAA TTTCCCAATA CTGATGAAAT AAAGAAAAAT 120
GAGGGTTATT TATATACATT TCAATAAAAT CCAATTTGAT TTTTCAAA 168

SEQ ID NO:1233

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01380

SEQUENCE DESCRIPTION:

GATCTAGAGA ACATAACAAA TGAAACTCTA GAAATTTGAA AGAAAAAAA ACACTTAGCT 60
GTAAGTGCTT TGACCTATTT TTTTAAAAA AAAAAAACC TGTNTTAATT CTGTGACTGN 120
ATTGNACCCT TCACCAGCAC TANGNGAAGT NGGANTGGAN GAAATTN 167

SEQ ID NO:1234

LENGTH:167

TYPE:nucleic acid

· TOPOLOGY:linear
CLONE:HUMGS01381
SEQUENCE DESCRIPTION:
GATCAAGCCA TCGGAGCTGC TAGAGTTCTG TCTGGACTTT CCAGAGACCA GTATTCCCTT 60
TTGCTGCCTC TAAAAGGCCT GTCCTGCAG ACATGAGAGA CAGCAGGTCT CATGGGGGTG 120
ACAAGCTTTT TTTTTTTTN TAAANGATTT TCNAAANNA ANTCCN 167

SEQ ID NO:1235
LENGTH:167
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01382
SEQUENCE DESCRIPTION:
GATCTTTTGT CTTCCAGTCT TCTCTTAGTG TCCTGCTCCT AGGTTTCCCT CTCTTCTGGT 60
TCTTCTCCCA GGTATTCTCT TCCAGGCCT CTCTGGCCAC TGCTTTGTAT CAGGGTTTTT 120
CACGCTTTTG TAGAACTGAG GTTCAATAA ACAGTTTCAG TTGCAA 167

SEQ ID NO:1236
LENGTH:167
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01383
SEQUENCE DESCRIPTION:
GATCCTCCAG CCCACCACCA CATAGTAATC ACTGACACTG TGGGGTGTCT CAGCTGGGGT 60
TCTGCTGTGT GTGTGTGTAT TTNACAAAAT ATGTATGGTT TCTGTTGAGC TCTTTTCAGT 120
TAACAGATGA ACTGNNNNTA TCATTAAATA TTTTGAAAA CATGAAA 167

SEQ ID NO:1237
LENGTH:171
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01384
SEQUENCE DESCRIPTION:
GATCCATCAG TAATGTAGCT AGCTGTAGAG CTGCAACTT AATAGCAGCA GCTGCCCAAT 60
GCCATGTNAA GTAACAACT GGTTTTGGT TTTTTTTTC CCCTTCAGTT TAAATGTNAT 120
GTGNAATGTA TTAACCCT TATTAAATA AANCTTGTT TCAGAAATAA A 171

SEQ ID NO:1238
LENGTH:166
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01385
SEQUENCE DESCRIPTION:
GATCTGGGGT TGGGTCATGA CACCAGCTAC CAATTTNAGA ATATTATTC TNGGTTTCTT 60
TATGAAAAAT GGGTGCTAGT GGTAATTCCT TNGTGGCTTA GTAACTACT CTNTGGATGA 120

TTTCCAAACA TTCAAAGCCA ATAGCCTNGT NATNAACAAG ANATTN

166

SEQ ID NO:1239

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01386

SEQUENCE DESCRIPTION:

GATCAAAACC CAGCAGAGTG CAAGCAGCAG TGAAGCAGGA TGGTCTACCT TCTGCTTCCC 60
TGGAAAGGAT GAATTACAT CATTGACAA GCCTATTTTC AAGTTATTG TTGTTTGTGTT 120
GCTTGTTTTT GTTTTTCAG CTAAATAAA AATTTCAAAT ACAA 165

SEQ ID NO:1240

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01387

SEQUENCE DESCRIPTION:

GATCTGTCTG TGTGTTATA TATTCTTTTA TGCATACTTA AAGTTAAAGG GTTTTATCCA 60
CTGTCATTTT AATTGGATAA CATTTTGTCA AGTTTTTTTT TCCTGATTAT TTGATGTAGC 120
TGGATTCAAG AATGGATTGC CTNATCAATA AAGAATATTT AGAAA 165

SEQ ID NO:1241

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01388

SEQUENCE DESCRIPTION:

GATCCTATTT TGGGCCTGGG GTGGGTATAC CTGNGGCTGG TCTTAGGAGG GTGCTAGGCT 60
GCAGACTGCC TTGTACTCCC TGGACACCCT CAAATGGGGT TTTCTGTGTT ATTCATAAA 120
ATTCTTTGAA GTCCAATAAA GCATGTAGGA GATTTTAACC ACTAAA 166

SEQ ID NO:1242

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01389

SEQUENCE DESCRIPTION:

GATCAAAGGN CAAAAGACCA AAAATCAGCG GGCTGAGGAT GGAGCACAGC CATGAACCTG 60
CTCAGACAA GACGCACCCA TGCTTCTCAG GGTCAAGGCT TTATGTAAA GCTTCCTGTC 120
GGGGCTGCTA GGTCAGCATT AAAGTAAGGC AACCAACAGT NAAA 164

SEQ ID NO:1243

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01390

SEQUENCE DESCRIPTION:

GATCTGCTCA GTAATATAAT TTGCCATTTT TATTAGAAAT TTAATTTCTT CATGTGATGT 60
CATGAAACTG TACATACTGC AGTGTGAATT TTTTGTGTTT GTTTTAAAT CTTTGTAGTGT 120
TTACTTCCTG CAGTGAATTT GAATAAATGA GAAAAAATGC AAA 163

SEQ ID NO:1244

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01391

SEQUENCE DESCRIPTION:

GATCTGGATT TGCTTTACCT TGTTAATATT ATCTAGGGGA AAAAGTGCAA ATTGCTCCAT 60
GTTCTTCTCT CCCTTATGTA ACATCTCCTG AGGGTGTTTA GTTGCATGGC TGTTCAGAAA 120
GGTATTAAGG GCTTAGGCCA AATCTTACTT TGAGTATGTT AAA 163

SEQ ID NO:1245

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01392

SEQUENCE DESCRIPTION:

GATCGTCAAA AAGAGAACCA AGAAATTCAT CCGGCACCAG TCAGACCGAT ATGTCAAAAT 60
CAAGCGTAAC TGGTGAAAC CCAGAGGCAT TGACAACAGG GTTCATAGAA GGTTCAGGG 120
CCAGGTCTTG ATATGATGCC CAGCATTGGT TATAGNGCA AA 162

SEQ ID NO:1246

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01393

SEQUENCE DESCRIPTION:

GATCTGGAAG TGAACACAGT TTATGTACAG GGAAAAGGAT TTTATTATCC TTAGGAATGT 60
CATCCAAGAC GTAGAGCTTG AATGTGACGT TATTTAAAAA CAACAACAAA GAAGGCAGAG 120
CCAGGATATA ACTAGAAAAA GGATGTCTTT TTTTTTTTTT TNNCNCCTT TNAANCNCT 180
GNTGCTGCCT NANTTTN 197

SEQ ID NO:1247

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01394

SEQUENCE DESCRIPTION:

GATCTCAATG CCAATCCTCC ATTCTTCCTC TCCAGATATT TTTGGGAGTG ACAAACATTC 60

TCTCATCCTA CTTAGCCTAC CTAGATTTCT CATGACGAGT TAATGCATGT CCGTGGTTGG 120
GTGCACCTGT AGTTCTGTTT ATTGGTCAGT GGAAATGAAA 160

SEQ ID NO:1248

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01395

SEQUENCE DESCRIPTION:

GATCTGAAAA TCGACCTCAA CTTAAGGGTG GTCAGCTCAA TGCTACACAG AGCACGGACT 60
TTTGGATTCT TTGCAGTACT TTGAATTTAT TTTCTACCT ATATATGTTT TATATGCTGC 120
TGGTGCTCCA TTAAAGTTTT ACTCTGTGTT GCACTATAAA 160

SEQ ID NO:1249

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01396

SEQUENCE DESCRIPTION:

GATCTGCATG ACCTATAATC TTTGAACCAC TTTCGTACCT CATGTTTTTA TCCAGCACTC 60
TTATTGTAAT ATGTACTAGT CTGTGAACAA TGTCAAATAA AAGAGAACGA ACAGGTAGTT 120
TGGTGGAGCT GAGCTAGTGT ACAATACACT AGTTGTAAA 159

SEQ ID NO:1250

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01397

SEQUENCE DESCRIPTION:

GATCTTGGA TTCTTGNTG GATTTNCACA GTTTTTAAAA TTAATCATGT CAGCCCAATG 60
CAGCTGTGTC ATGCCACCT AGTGGTAAAA CTAACATTAC TGTTAAGCTG TGTGATTTTA 120
AACTTGAATC CCCAGTAAAN GGTTCACCTGT TCTGTGAAA 159

SEQ ID NO:1251

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01398

SEQUENCE DESCRIPTION:

GATCCCTCTG AGAGTTGATG AGGATGTGTA ACAAGTATTT NCTTCTATNG TGCCTGCCAG 60
GGCTGAAGCT GCCTGGTATC CAGGAGGGGA ATGCTGGTAT CCCCATATGN CTGTNTTTGT 120
TTGAGATTTT TAATAATAAA TAATAAATTT TTGAAGAAA 159

SEQ ID NO:1252

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01400

SEQUENCE DESCRIPTION:

GATCCTATTC TTGTA AAAAT ATTTGTATGT ATGCACAGAA ATCTGCAAAG ATGTACACTT 60
AGTGA ACTGG TTACCAACGA ATGGTGGGAC TAACTAAAAT GGTCTTTTTA CTTATATGTG 120
CATTTCTTTT TATAATAAAA ATGGGTATA TGCCTAAA 158

SEQ ID NO:1253

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01401

SEQUENCE DESCRIPTION:

GATCTGCCCT GTGTTATCCA GTTATGAGAT AAAAAATGAA TATAAGAGTG CTTGTCATTA 60
TAAAAGTTTC CTTTTTTATT CTCTCAAGCC ACCAGCTGCC AGCCACCAGC AGCCAGCTGC 120
CAGCCTAGCT TTNCCCNTT TTTTTTTTTT NNNCNNTN 158

SEQ ID NO:1254

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01402

SEQUENCE DESCRIPTION:

GATCTCAATC TTCGGGGTGT GATGAATAGC GAATCATCTC AAATCCTTGA GCACTCAGTC 60
TAGTGAAGAT GTTGTCATTA TGTACAATAC ATAAC TAGTT TAATTA ACTA TGTGATGTTA 120
ACTATTATTA ATAAATTTTA ACATTTTCCA AAATAAA 157

SEQ ID NO:1255

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01403

SEQUENCE DESCRIPTION:

GATCCGGATG NGGGGAGCTC TGTACAGAGG GCTGGTGATT GTAAAAATTT CTTTGTAAA 60
GTAGAAGTTG GGGGTGGGGT GGGTGCTGGC TGCAAAAATT TCTGGCTTCT CTTACCCCTA 120
TTGCCCCCGG CAATAAATTG TTTCTATATG CCAGAAA 157

SEQ ID NO:1256

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01404

SEQUENCE DESCRIPTION:

GATCTTATTT GGAATTGACA TTCTCTATTG TAATTTTNTT CCTGTTTATT TTAAATTTN 60

CTTTTGTGT CACTGGAAAG GAAAGATGAT GCTCAGTTTT AAACGTAAAA AGTGTAACAAG 120
TTGCTTGTGTT ACAATAAAAC TAAATGTGTA CACAAAGAAA 160

SEQ ID NO:1257

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01405

SEQUENCE DESCRIPTION:

GATCTTTGTN CTTGACCTCT AGACCCCAAG ATGTGAACAG TGCACGTTTT AATGTCATCT 60
TTNCTCATGT GTTATAAGCC CCAAGTTGCT GTATATTNC ACAAGTATGT CTACACACTG 120
GTCATGATTT TNATAATAAA TAACGATAAA TCGAAA 156

SEQ ID NO:1258

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01406

SEQUENCE DESCRIPTION:

GATCTTGCTC TGATTATAAT GCCAGTGAAT GTTGCTGAAC TCTTTGTATA TGCAAATTGC 60
AAGATTAAAA CCATTCTGAT GCAAGGATAA ACCTTTACTT TGACTACCAG CCTGTGTTTT 120
TGTCTTTAAA TCTCTTAATT TCATTCTCT GCAAA 155

SEQ ID NO:1259

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01407

SEQUENCE DESCRIPTION:

GATCTGCACT CCCACTCCCC CCACACTTCC CAAAGTGCTG GGATTACAGG CATAAGCCAC 60
AAGCCACCTC ACCCAGCCAA CATGTTACAT CTTAATTCTT GGATTTTCTT CACTGCAGGG 120
CTTTGGGTGG AGAAATAAAA CTCTTCAAAT GCAAA 155

SEQ ID NO:1260

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01408

SEQUENCE DESCRIPTION:

GATCTGGGAG TGCTGGACGT CATCTCCAC CNCACCCAGC CGTGGGTCTT CTCCTCGGGG 60
GCAGACGGGA CTGTCCGCCT CTTACCTAG CTGTTCTGCC TGCCTGGGGC TGGGGTGGTC 120
GTGCTGAAGT CAACAGAGCC TTTACCCTGT GCAAA 155

SEQ ID NO:1261

LENGTH:158

TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01409
SEQUENCE DESCRIPTION:
GATCTTGGAG GCCAGCCAGC TGAAGGAGAC ACTGCAGGCG GTGCCCAAGC CAGGGGCCTT 60
TGACCTGGAG CAGGTGAAGC GTTCCACCTA CTTNTTCAGC TGACACCCCG TGAGCCTTGT 120
CAGTGTGTAA ATAAAGCTCT TTTGCCACCC CCAGGAAA 158

SEQ ID NO:1262
LENGTH:151
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01410
SEQUENCE DESCRIPTION:
GATCCATCAT NGATGTAAAA GTTCACAATC ATGGTTCAAA TGTAACAGTG CAGAATTGAA 60
TATGGAGGCA TGCATAACCT TCCTCTTAGA AAATGGCAGG TGTGTGAATT TCAAATTTT 120
GTGCAATTAG ATTAAATCAT AATGCAACAA A 151

SEQ ID NO:1263
LENGTH:154
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01411
SEQUENCE DESCRIPTION:
GATCTGATGG GTTATCAGG GGTTCCTACT TTTGTTTCTT CATTTTCTCT TGCCACCAGC 60
ATGTAAGAAG TGCCTTTGGT CTCCTACCAT GATTCTGAGG CCTCCCTAGC CATGTGGAAC 120
TGTAAGGCCA ATTAAACCTC TTTTCTTCC CAAA 154

SEQ ID NO:1264
LENGTH:154
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01412
SEQUENCE DESCRIPTION:
GATCAGCACC TTGTATAGGA ATTCCCATGA ATTATGACTT CTCATTCTGT TTTATCAGAG 60
TGCATATATG TCCTACTTCA GGAAAAGTAA AACAGTCATT TACGAAAGAA AGTCAATCTG 120
TATCCTAAGC ATTTTAATAA AAAGTTAAAA CAAA 154

SEQ ID NO:1265
LENGTH:153
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01413
SEQUENCE DESCRIPTION:
GATCCTGGCC TGAGAATTGA GGGGAGGTGG CCAGCCCGCA GAGGTGGGGT GCTGGGGCTG 60

CATGATTTTN GCCCTGCGTC CTTCTCTTT GGGGCTCCTT TCCCCTCTCA TACATAAAAT 120
CGCTTTCAAA TTAAATCGC TGTCTTCTGG AAA 153

SEQ ID NO:1266

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01414

SEQUENCE DESCRIPTION:

GATCCGAGTG AAGCCCCAGG TCTCANAGAG CAAGCTGTAG CCAGATGGTA CCAGCTTCGC 60
CTGGGGCTTC AAGAACCTCC CATCTATCCC CATTCTGTAN ACAGGGAGTT ACAGTCCCTT 120
TTTGGCCCTC ACATNCAATA AANGTGACTG ATANCACTGG AAA 163

SEQ ID NO:1267

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01415

SEQUENCE DESCRIPTION:

GATCTGGCAA CACGTTTTNN TTGGAATATT TGTGTTTTCT TGAGGAGGTA TAATTACTGT 60
ATCCTAGGTG TGAATTTTTG AGTGCAGATG CACATTTTAA AGAAATNATG ATTAANCTGA 120
TAATGTTTTT NGGCTGAAAA TATAAANNA AAN 153

SEQ ID NO:1268

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01416

SEQUENCE DESCRIPTION:

GATCATAAAT CAAGGAATGC TGACAGCCAC TAAAGCTGGA GAAGGCCAAG GACAGATATT 60
CAATCCTCCC GTAGAAGTAC AGCCCTGCTA ATGCATTGAT TTTGGACTTC TGGCCTCAGA 120
ACTGTAAGAG AATAAATTC TATTGTTTTA AA 152

SEQ ID NO:1269

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01417

SEQUENCE DESCRIPTION:

GATCAGACCA ACAGTGCTGT TTCCCGGGAG GAACACTTTT TNATTNTTAC CCTTTGCAGC 60
TCCACCTTT AATCTGTTTT ATACCTTGCT TATTAAATNN GCGCTTAAAT NATTGAAATA 120
ATGCTGNCTT AGTAGCAACT AAAATGTGNC TN 152

SEQ ID NO:1270

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01418

SEQUENCE DESCRIPTION:

GATCCCCCT ACCCACCCA GTCCCAAATC CAGTCCTCTG GCCCTTGCCT AGCCCTGAAT 60
TGCTTCTCTA AGCTGGTGTT CCCATGCACA GGGCCATTCA GGAAGGGCTG GGGGAGTGTG 120
TGTGGCAATA AAGCTTGAAG GCACCGTGGG AGCAAA 156

SEQ ID NO:1271

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01419

SEQUENCE DESCRIPTION:

GATCCTCTTC TCTCCAAATG TTAGCCATCC TGAAGTAGCC GAACAGTAGA AACTTTGGTG 60
GGGATTAACC GGGAGCTTGA AAATTTGTNT TTGGTAACCT GATACTGGAC AGCTGAACTG 120
AATGGCTGCA AAATAAATAC CTCACATGAA A 151

SEQ ID NO:1272

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01420

SEQUENCE DESCRIPTION:

GATCCTGGAG GACCCTGGGC CCCAGGCCAG CTCCCATCGC TGGGGGACGG TGAACGGCCA 60
TGTGTTAATG TTACGATGTT TTAAAAAGAC AAA 93

SEQ ID NO:1273

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01421

SEQUENCE DESCRIPTION:

GATCCCCTTT GTCAGTGGGG AAACCAAGGC AGAGCTGAGG GGACAGGGAG GAGCAGAAGC 60
CATCAAGATG GTCAAAGGGC CTGCAGAGGG AGATGTGGCC CTCCTCCCC CTCATTGAGG 120
ACTTAATAAA TTGGATTNAT GACACCAA 149

SEQ ID NO:1274

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01422

SEQUENCE DESCRIPTION:

GATCTCAACG TGCTGATATG GAAAGTGCTT CAGAATGTAT TAAGGACATA AATTAAGTGT 60
ACAATAATGT GTGTGTGTGT ATATATGTAT ATGCTTACGT GTGTATGGAA AGTATCTCAG 120

CAGATACAAT AAAA ACTTAA TTGTGATTAA A

151

SEQ ID NO:1275

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01423

SEQUENCE DESCRIPTION:

GATCCTCCTT CTATTTTGCA AACAGTCTGT AAGTAACTNA TAAAACTTTA AAATATGCAA 60
ATTTTAAAAT TATATAGTTT GATTTACTCA TCAAATTATC ATGTATGCTG TTATTTAAGT 120
ATGAATAAAG GCTTTTTTAA ATNGGGAAA 149

SEQ ID NO:1276

LENGTH:254

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01424

SEQUENCE DESCRIPTION:

GATCCTACTC CTTTGGAGTA AAAGTAGTGC TTACCAGTTT CCAATTGTAT TTAGCTTCTG 60
GTTGGAATTT GAAAAAAAAA GAAAAAAGA AAAAGAAAAC CTAAATAAAA TAGGTGAAAG 120
TTCCCTGACT ATTCAGGTGA ATACACAAAG TTTGAAGTGT TAACTTTTTC TTTCCATTTT 180
ACTGATGTTA CTGGTCACCT TAGAGAATTA TTTCATAGTC TGTGGCTAAA TAGTAAATTC 240
AGANGAAAAA TAAA 254

SEQ ID NO:1277

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01426

SEQUENCE DESCRIPTION:

GATCCTACTG TTGAGTTAGG AAAATATGGT TAGACAGACT CACATTACTT TTTTTCAGAG 60
GTAAACTCTA GATTACTGTG TCAACCCAAT ACTATTTGGC CATAGATGTA AAAACTACCA 120
AATAAAAGTG GATTTTGTGG TCTACAAA 148

SEQ ID NO:1278

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01427

SEQUENCE DESCRIPTION:

GATCCACAGT GGAGTCTCAG TAATTATATC TCCTTGATTT CTCATTTNC TCTTCTGCTA 60
TAAAAGTAGA GATAATGTGT AGTCACTNCT CATTTAGTGA ACCAATTGTN ATANTTCTGG 120
AAATCTNTTN TCTTTAAGTG TAAATANN 148

SEQ ID NO:1279

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01428

SEQUENCE DESCRIPTION:

GATCCCAATC AGATTCCCGC TAATGGAAGA AGTTTAGAAT CTTTCAGGTG GAATAAAGTC 60
ACATGAAAAC AAAACACAAC TATATATATT TCCAGTTTTT TTGCCTTATT GATTTTTTNC 120
CAAA 124

SEQ ID NO:1280

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01429

SEQUENCE DESCRIPTION:

GATCTTTGGG GAGATACATC TTATAGAGTT AGAAATAGAA TCTGAATTC TAAAGGGAGA 60
TTCTGGCTTG GGAAGTACAT GTAGGAGTTA ATCCCTGTGT AGACTGTTGT AAAGAAACTG 120
TTGAAAATAA AGAGAAGCAA TGTGAAA 147

SEQ ID NO:1281

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01430

SEQUENCE DESCRIPTION:

GATCCTGACA CTAAGGAATG CTGAAGCTTT GGACTTCGGC AGTCTTCCAC CTTAGTCAT 60
CAGCTACAGT TGGAATGAAT TTNAAAACGC TCGGGACCTG TTAATNTNTC CTGTAGNCTG 120
TATTATNTNA AAAATCTGGG CAACAAA 147

SEQ ID NO:1282

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01431

SEQUENCE DESCRIPTION:

GATCTCGCTC CCCCTTCGG TTCTTTCGAC CGGTCCCCC TCCCTTTTTT GTTCTGTTTT 60
GTTTTGTTTT GCTACGAGTC CACATTCCTG TTTGTAATCC TTGGTTCGCC CGGTTTTCTG 120
TTTTCAGTAA AGTCTCGTTA CGCCAAA 147

SEQ ID NO:1283

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01432

SEQUENCE DESCRIPTION:

GATCTCAGTT CCTGGCTTTC CCCCCAGCCT TCTCACCCCTT TGTGTCTGTG TAGTGATTTG 60
GTGAGAAATC GTTGCTGACC CTTCCCCAGA CCATTATGA GTCNAAGTTT ATTATTCAAT 120
AAAAGTGCTN TATGCGCTTT CTCAA 146

SEQ ID NO:1284

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01433

SEQUENCE DESCRIPTION:

GATCCAAAGA TGAGGGGATT NTTTCAGAAA GACAATCTCG GCATGCATTA TTTCTTTNNT 60
TTGAAGATTC ACTCATGTTG CATGCATCTN TAGCTTGTNC CTTTTTAATT CCTAGTAGAT 120
TCTGTCATAT GCCTATCTNC AATTNN 146

SEQ ID NO:1285

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01434

SEQUENCE DESCRIPTION:

GATCCCCATG CTAAGAAAAT GCCCAAAAAA ATAGGCCAAAA CACGAGAAGA GCTAGGGTAA 60
GAGAAGGACG TAAACAGAAC CTGACACCAG CTCCTTTTCC TTCTATACAT TATTTAATAC 120
CTATTAAATA AAATNATTTT TGGAATAAAG CTTGTGGGAA CATTAAA 167

SEQ ID NO:1286

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01435

SEQUENCE DESCRIPTION:

GATCAAAAAG GCTTATAAAA CAGAGTAATC TTGTTGGTTC ACNCTTGNGA CCGTGAAGAT 60
ACTTTGTATT GTCCTATTAG TGTTATATGN ACATNCAAAT GCATCTTNCA TGTGTTGTTC 120
TTGGCAACAA ATTTTGAAAA GTAATATTTA TTAAATNTTT TTGTATGCAA ACATGCAA 179

SEQ ID NO:1287

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01436

SEQUENCE DESCRIPTION:

GATCCGATGG GAGTGTAAT GTGAGACACA ATGTCTTGAT TATACCTGTT TGTGGTTTAG 60
CTTTGTATTT AAATAAGGAA ATAACTTGA AAATNATTG TCATCATAAA AATGAAACAA 120
ATNAAAATAT TTATTGCCAG GCAA 145

SEQ ID NO:1288

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01437

SEQUENCE DESCRIPTION:

GATCAGGGCA TGCAACCAAA AGCAGCTTAA ATGAAATATT TAAAAATAAA ATATCAGGAA 60
GCTATTTTGA GATTCTNCT GGCTTATGTT TCTACTTTAG GACCCTCATT GTNCTCTTAT 120
TAAAAAAAAT TATTCCTGT GCAAA 145

SEQ ID NO:1289

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01438

SEQUENCE DESCRIPTION:

GATCAGATTT TTTTGTACC TACGTAAGAG TACTTGAAGT TTTATTTAAA ATAAAAATGTT 60
GTGGAAGG TAGCATTCTT TTTTAGGAG TGTATTTTT CACTATGTGT GGCACGGATA 120
CAATAAAGA CTTTACAAA CTAAA 145

SEQ ID NO:1290

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01439

SEQUENCE DESCRIPTION:

GATCCAGGG CTCCTGCCA TTTAGTGTC TTGGTGTAGT GTAACCATTT AGTGGTTGGT 60
GCCATTTTT TTTTGTNCA AATGATTAA ATNATTGGAA TNCACAATTT TTAAATATN 120
CAAATAAAN GTTAAAACC TAAA 145

SEQ ID NO:1291

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01440

SEQUENCE DESCRIPTION:

GATCAGGAAT TCTAAATAAA TTTCCAGTT AAAGATTATT GTGACTTCAC TGTATATAAA 60
CATATTTTGA TACTTTATTG AAAGGGGACA CCTGTACATT CTTCCATCAT CACTGTAAAG 120
ACAAATAAAT GATTATATTN ACAA 145

SEQ ID NO:1292

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01441

SEQUENCE DESCRIPTION:

GATCTGCCAG CACCCTGTGG GGCCAGACT ACAGGCTGAT GCGGAGGCT TCGAGTGACC 60
CGGGTGCCGA GGAGCGGGA GAGTTGCTGG GGTAAAGGTC TCGGCGACG CCGGCGCCCT 120
GTGCCGTGTC CACGGGTGCA TAAA 144

SEQ ID NO:1293

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01442

SEQUENCE DESCRIPTION:

GATCTAAATA TTTNNAGCT GAGTTATTAG GGAGTCATTA TTCTGTGGTA CAATGCTGCA 60
AAAAGCATCA TGTGGAAGAA TGGGAACAT GCTTACTTTA TGAAGTGATG TATAACACAA 120
TGAAATCTGT TTTACAATA CAAA 144

SEQ ID NO:1294

LENGTH:372

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01443

SEQUENCE DESCRIPTION:

GATCTTGGTA GTATCCCTGG CTGCTAAGCC TATGGCAGGG GTGGTCCTTT CTACATTCCC 60
ATCACTTAA CAGCTCTTTT GGGATTGGGT GTTTCATTCC ATTTCTGCC ACTCCCTCTC 120
CTCTCCTCTC TGGTAGGTTT AATTTTATGC TTCCCTGAT TCCAGCTTTC TGCTTCCTGA 180
GGACTCCCGC TCCNCCACC CCAAAGTTTG TCTGTGGGTG TTATAGTGGT AACTGCAGTT 240
CCCTCCTCTG GGAATNGTAG GCTGTAATAG GNTTAATAAA CTCNACNTNC TCTAATCNTT 300
GCTNAAAANG TGGGGGTAAN GGGGATGGCN TTGNCCCNGG GTGGGAAANT TAAANNTGGT 360
GTTTANGGNA AA 372

SEQ ID NO:1295

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01444

SEQUENCE DESCRIPTION:

GATCTTCTCT GTGGGGGAAA AGGAAGAGGA GGGTCTTGTT CTCCANTNT GTTTATTCTT 60
TGGGCTCTGG GAACAGGGGA CTACTTTGGG GCTTTCTCCA ATNCTNTTGT ATGNTGTTAT 120
TAAAAGCGAG CTATTGCATT TCAAA 145

SEQ ID NO:1296

LENGTH:141

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01445

SEQUENCE DESCRIPTION:

GATCTTATAT CCTGTGACCT GTCTAAATTC AATCTGTTAG TTTTATCATT TTTTAAAAA 60

ATGTCCGTGT GTGTCTTCCT TGAGATTTTC TACATTATCA TGTCATCTGC ANATAAAGAC 120
ATTTACTTCT TTCTTTCCAA A 141

SEQ ID NO:1297

LENGTH:141

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01446

SEQUENCE DESCRIPTION:

GATCCAGTTG TACTAAGGTG TACAGGATAT TTGCAGATAT AGGTAACTG AATGAAGCAT 60
ATTAATAACT GCATTTNCCT AACTTTGAAA AATTTTNCAA ATGTCTAGGT GATTAAAAA 120
ATGAGATTGG GCTATTGCAA A 141

SEQ ID NO:1298

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01447

SEQUENCE DESCRIPTION:

GATCTAAAAT AGATATGTTG GATTGATATT CTCACGTGTT CGGTGTGGAA AACAAAACAA 60
GTACATGCTT TAGAAGCAAC AACAATGAAA TCCTTTTGAA ATNTGTGTTA ATATCGTTTA 120
NTAAAATACC TAGTTTGAAA 140

SEQ ID NO:1299

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01448

SEQUENCE DESCRIPTION:

GATCCATAGA AGGGCTTCCC AAACCTTGTT TTGCAACATC CCAAATTGTC TCCAGTTGAA 60
GGAAGGCCTT TATCAGATTC ATAGATGAGC TTTCATTGTA AAAATAAATG TACTTTGCAC 120
CACTTCATGA TGGAGGGAAA 140

SEQ ID NO:1300

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01449

SEQUENCE DESCRIPTION:

GATCTGAGGT TTTTAGATTT TAAATATTTA TGTGGAATTA ATTAAAGGTA GTTGGCTATA 60
TCGCTATCAT TTCATTCTTT TGACATTATT TGAATATTTT ACTGGAAAAT AAGACTAATA 120
AATTGTTAAA AGTTTTTAAA 140

SEQ ID NO:1301

LENGTH:139

TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01450
SEQUENCE DESCRIPTION:
GATCTTCACA AAGTTGTCTT TTTCACTGTGT TTTGTCAACG TGAAATTAAA TTGTAGTTAT 60
AAGCAAAAGT TGTTGCCTA GGAACAATT GTATATNCAG TTAACAGAA ATAAAAGAAT 120
ATTTGTCTTA AGATGCAAA 139

SEQ ID NO:1302
LENGTH:138
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01451
SEQUENCE DESCRIPTION:
GATCGNCACA TTTCCCAAAA ATAATAAAAA AATCACTAAC CTTTTTTAAG GAAAATATTT 60
AAAGTTTTAC AAAATTCAAT ATTGCAATNA TCAATGTAAA GTACATTNA NTGCCTTATN 120
AAAACCTTCC CAATTAAA 138

SEQ ID NO:1303
LENGTH:137
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01452
SEQUENCE DESCRIPTION:
GATCATTTTT TCGGTCTCCG AGGTGAAATG ACTTATTAAT TAAAATTTGT AAACCTCACAT 60
ATGCATATTG TATATGTGTA GAAATGTAAT CACACTTTGT CTTGGAATTA CATTAACTG 120
TTTGAAATCA CTGTAAA 137

SEQ ID NO:1304
LENGTH:136
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01453
SEQUENCE DESCRIPTION:
GATCTTTTTG TGATTGCTTT CCCGTCTCTA AGTAGTATTC TGTTGTGTCT AGAGAACTGA 60
TTTTTTCCTA CATACGCAAA TTGTACATTT GTAAGTGAAA ATNTCAATAC ATTAAAAGCA 120
TTANCCTAAA ANCAAA 136

SEQ ID NO:1305
LENGTH:136
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01454
SEQUENCE DESCRIPTION:
GATCAGCTGG GTTTTGGCCA GGAAGTTGTC TTTGTGGACT CTGCCTGCAT GGCTTAGTAG 60

TTGAAGGAAA TTTTTTTTGT GTTTGTGTTT TTATAATTCA GTTTAATCAA TAAACATGTA 120
TTTATTGACT GTTAAA 136

SEQ ID NO:1306

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01455

SEQUENCE DESCRIPTION:

GATCCCTTTA TGAGTTTTGC TATTTTGGCA TGCTACATGT AAGTTTTGCT TAATGTTTTT 60
ATGTAAAGCA TCTCCTCCT TTTACTTCTT TTATTGTGAT AAAACTCATA TAAAATTGAC 120
CGTTTTGAAG TGTAAA 136

SEQ ID NO:1307

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01456

SEQUENCE DESCRIPTION:

GATCTGGGCC CGACCCTCAC TACCCCTGAG ATATTAGTTC CCAGGCCTGT TTTCCACAG 60
GATTGTGGGC TCTCTGCTTC CTTAGTCGGA AGTNTTTTCA ACTAATCAAA TAAATGAATG 120
AATGATGAAT AAGAAA 136

SEQ ID NO:1308

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01457

SEQUENCE DESCRIPTION:

GATCCCAAAG ATATTAAATA TATGCAAATA TTCCAAAGTC TGAAAAAATC CAACATCCAA 60
AAACACTTCT GACCCAAGCA TTTAGATAA GGGACCAGAA TTATTAGATT AAATAAGGTA 120
TATTATTAAG TTTAAA 135

SEQ ID NO:1309

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01458

SEQUENCE DESCRIPTION:

GATCAGGCCA AGAGGTTGCA CAGGGCATGA TACTGCACCC TGCCTGACCC AGCTGGGCTC 60
ACAGGTCAGG GGAGAGTTGG GGCAGGTGAA TGTCAGCATC AGGCTTCTNN TTTTAACTT 120
TTAAANAAAT AAAAA 135

SEQ ID NO:1310

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01459

SEQUENCE DESCRIPTION:

GATCCTGCCT CAAAAAAAC AAAAAAATTC TTTATTTTCT CCATAAACTA CAGTTTATAT 60
AAGCAAAAGT TTCAGTACTA AGCAATTNA GTCTCTGCAG TCTCTNGTNT TGANTTAATA 120
CAACTTTNGT NAATN 135

SEQ ID NO:1311

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01460

SEQUENCE DESCRIPTION:

GATCTACCTG TGGCCCGGCC TCCCTAATGT NATTCACATT GAATGGGGAT GAGGTCGGAC 60
AGTGGCTCAT AGAGCGAGTA TGAGCCCTAG CTGTGGGCTA GAAATNTCCT TAATAAACAT 120
CCTTATTTTC NTNTTTAAA 139

SEQ ID NO:1312

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01461

SEQUENCE DESCRIPTION:

GATCCTAGTA TGTTGATAGC TTTNATTTTG TGAGTGGTTT ACTAGTCATT TATTATGATT 60
CCCATGANCT CTGATATGAT TCATTGTGGT TTAACTCAG GTTGAATAAA AGCATCCATT 120
TCTTTTATAG GAAA 134

SEQ ID NO:1313

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01462

SEQUENCE DESCRIPTION:

GATCTCAAGG TTGATAGTGG TGTTCACTAG GAGACGTGGA ATTGAGACTA ATAACCTGGA 60
TGTTAACACT GTTTACTGTT TTTTCACATG TAGAAATGTT CTTTGTGTAT TTTTCTACA 120
GAGGATTTTC TCTGATTTTA TTTTCTTTGT TTCTGACTCT AATAATTAGT TGGAAACTCA 180
TATAAAATGA GCTTTCCTAA ATTAAATCTA TTTTAAATAA AGGTTATTAC TATTAATA 237

SEQ ID NO:1314

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01463

SEQUENCE DESCRIPTION:

00630

GATCTATAGG TTTATTAGAA NCCTNACCAC AGNATCCAGA TTATCTTCAG TATTCTNTCA 60
GTACAGCTCT CTGCAGCTTA AACTCGGTGG TACATAAAGA AGATGATGAA CCCAAAATGN 120
TGGNCACTGT ATAN 134

SEQ ID NO:1315

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01464

SEQUENCE DESCRIPTION:

GATCAGAAAA TCCCTCTGAC ATCTCCACTG CCCCCAAAGA CCTCCGTTGA ACATTCTGTA 60
TGGAAAAGAG CCCTGGAGCA TCAGGTTCCC CAGATAGGCC CCCAAATAAA GACCTGTCTA 120
TGGCTCTCCC AAA 133

SEQ ID NO:1316

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01466

SEQUENCE DESCRIPTION:

GATCTAGCTG GCTGTAGTAT TGCNTTGATA ATTTTTTCT TTAAATTAC CTAATATATA 60
TAAGGAAGGG GTTTGGATAT ATAAAAATAG GTGTAAATT TATCTATTTA CCAATAAATT 120
CATCTCTTTA AA 132

SEQ ID NO:1317

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01467

SEQUENCE DESCRIPTION:

GATCCAGCCA TTCCTGAAGC CCACCCTGCA CTCATTCCA ACTCCTACCG CGATACAGAC 60
CCACAGAGTG CCATCCCTGA GAGACCAGAC CGTTCCCCAA TACTCTCCTA AAATAAACAT 120
GAAGCACAAA 130

SEQ ID NO:1318

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01468

SEQUENCE DESCRIPTION:

GATCTAAAAG CCAACTTTTT CTCAGTNTTA CTCAGTGGAA AGATAAACTA AGTTTTAATG 60
TTATNTTTTT AAATNTAAGC AAAATTTATT TCTGTNCTNT AATAAATAAG AAAATGTGGT 120
CCACTGCAAA 130

SEQ ID NO:1319

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01469

SEQUENCE DESCRIPTION:

GATCCCCTGC TCCTGTTGTG TTCTGTTGTA AATCATTTGG CGAGACTGTA TTTTAGTAAC 60
TGCTGCCTAA CTCCTGTG TTCTATTTGA GAGGCGCCTG TCTGGATAAA GTTGTCTTGA 120
AATTTCAAA 129

SEQ ID NO:1320

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01470

SEQUENCE DESCRIPTION:

GATCAGAATT TTAAAGCAG AATTTTGTCA AAAGGGTCAT TTTTTGTCT ACCCCTTTTA 60
CACTTTTCAG ATTCTCAAAG TGTCTCATCT CAACTTTTAA AAGAATAAAG AATATCTTGC 120
TGGGCAAA 128

SEQ ID NO:1321

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01471

SEQUENCE DESCRIPTION:

GATCCTTGTC AGATGAAAAT GGATTCACAG CTCTGGCAGT TCCCAATGTC TGGGGAGGGG 60
TATAGGTTTG AAAGGCTGTT TGAAAGAGGA ATGTTTAATA AAGGCTTTGA TTAAATCTTG 120
AAAAGAAA 128

SEQ ID NO:1322

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01472

SEQUENCE DESCRIPTION:

GATCTCGAAG TNACTCCGGG CTGAGCAGTG GGGCGGCTGG GGGAGGGGTG ACGATTCTCC 60
TCAGGCTTTG GCCCTGCAAG CAAACCCACA TATCTNCTCT GTATGTAATA AATNTNTTAA 120
CGTCGAAA 128

SEQ ID NO:1323

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01473

SEQUENCE DESCRIPTION:

GATCCTGAAG CNGCACTTAC CTNTGAANAG TCTTCAAACCT TTAAACCTT GCCAGTNAGG 60
ACTTTTNCTA TTGCAAATAG AAAACCCAAC TCAACCTGCT TAAGCAGAAA ATAAATTTAT 120
TGATTCAAA 129

SEQ ID NO:1324

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01474

SEQUENCE DESCRIPTION:

GATCTGTGAA GTTATTTTGT AAGGACATAC ATTTGGTAAG TAAGTTTGTG TCCCAGGAAA 60
TGTATGTNTT TTAAACCCT TTCTAAATAT GCAGGCCATT AATAAATAAG ATTGTTTCTT 120
CCCTAAA 127

SEQ ID NO:1325

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01475

SEQUENCE DESCRIPTION:

GATCAGAGAG ATTTTNTTT TAAACTACCA TGGTCCCAGG ATTCCATCCT GAAATNAATT 60
TTCCTTTGTA TGAATATGTG TAAATAATTT AAAAATAAAA CTGTAAAANA TTTGTNCGAA 120
GAATAAA 127

SEQ ID NO:1326

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01476

SEQUENCE DESCRIPTION:

GATCCCCCTT CATTTGATGT TTGGAAAATN CCAGTAATTA TCATTTTTC AACGAATATG 60
GATACCACAT AGTACTTTGG TGTTACCTGC TTTTGAAAA TAAAGTCTTT GGTTACCCG 120
GTGAACTATT TATGAAA 137

SEQ ID NO:1327

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01477

SEQUENCE DESCRIPTION:

GATCCTCAGC CTCCCAGTGG TCTTTGTAGA CTGCCTGATG GAGTCTCATG GCACAAGAAG 60
ATTAACAG TGTCTCCAAT TTAAATAAAT TTTTGCCCAT TTCTATTAA AAAAATTGT 120
TGTAAG 126

SEQ ID NO:1328

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01478

SEQUENCE DESCRIPTION:

GATCCATCTG TGTAGTTTCT GAACAGTCAG CGATTCCAGG TTTTAAATAG TTTGTAAATT 60
TTCAGTTTCT ACACACTTTA TCATCCNCTC GTGATTTTTT AATTAAAGCG TTTTAATTCC 120
TTTCTCAAA 129

SEQ ID NO:1329

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01479

SEQUENCE DESCRIPTION:

GATCCATGCT TTA CTGTGTT TAATGGGGGT AACAGGGGTC CCTACAGCCC TCCCAGCTAA 60
ACATTTGGAA CAAAACACCA GCCCTTTTGT AGTGGATGCA GAATAAAATT GTTAATCCAA 120
TCAAA 125

SEQ ID NO:1330

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01481

SEQUENCE DESCRIPTION:

GATCTGTGTT GAAAGTNGTA TATTTTTATC TGTNCGGTGC TGAGTGCAGG CCACCAGCTC 60
CTAAATAGAG GTTCCCTATA TGC GCGTATG ACATGGTGAA TAAACACAAC TCTCTCCACT 120
CAAA 124

SEQ ID NO:1331

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01482

SEQUENCE DESCRIPTION:

GATCGTTGTA ATTNNTTGAC ATTCCTTTNA GAAGTTGTGA AATGTTACAA CTTGTNCTTA 60
TG TAGACACA ATCTCCTGTC TCAGTACAGA GGC ACTGACT TCAATAAAGT CTATTTATAC 120
TAAA 124

SEQ ID NO:1332

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01483

SEQUENCE DESCRIPTION:

GATCAAAAAA TGGAAATGTA TAATTAAATC ATACTTAGCA AATCTAACAC ATGAAATGTA 60
ACATCTGCAT ATGGAGAATC GTGTTACTTT ATTGAAAAAC ATTAAANGTT TGAGANCTTA 120
AGTTGGAAA 129

SEQ ID NO:1333

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01484

SEQUENCE DESCRIPTION:

GATCTGCCAA GATTCTTTGA ATACAGATAA TTAATGTAAA CAATTATCAT AAGTATACTA 60
ACATGTTATN CTTTTTAAAT AAGAAGGTAT AATAAAATAT CCCATTGGTT TNATGTATTA 120
AA 122

SEQ ID NO:1334

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01485

SEQUENCE DESCRIPTION:

GATCGGGCCN TTGGCTGTAA GACCCGACCC TTCGAGAACC CGANACGAAA CGCTCCATTA 60
CCACTGCNCA GTGAGATGAG GGA CTCACAG TTCCAAGAGG NTTCTTTCCC GTGGNCCCCT 120
NN 122

SEQ ID NO:1335

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01486

SEQUENCE DESCRIPTION:

GATCCAACCC TGTACTGATA GTACTTCCCA GTATGATATT GTGATGTTTC ATACAATGCA 60
GTGAACATAA CCAACTTGTT ACCTAAATAA AGANTTGATA AAAACAGTGT GACATATTAA 120
A 121

SEQ ID NO:1336

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01487

SEQUENCE DESCRIPTION:

GATCAAGGTC TGCAAGGGAA TTCTTGTTGT CTGCTTTCCA TTTGACACCG CAGTTCTGTT 60
CAGCCATCAG AAGAGAGACA AGGNATTAAA AATTTCTTTT TAATCNGTT ACCAAATAAA 120

SEQ ID NO:1337

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01488

SEQUENCE DESCRIPTION:

GATCTAGTAG GCACGTCTGT CAACAGGACA CATGCCTCCT CTGACTATAA CCTCTTAATA 60
GTTGTGTATA ATGAAACTG TAAACTTTTT TAAATAAACN GTGTATATAC CTTGGCAAA 119

SEQ ID NO:1338

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01489

SEQUENCE DESCRIPTION:

GATCCTGAAG CCATGGTTTC TTCCCTGCCA GAAATGAAAG GTTCAGTTAT GAGGCAACCC 60
TCTAGTAAGG CATTGTAAAA GTTACTGGAT TTGGTTTAAT AAAAGTTGAA ATAAAGTAAA 120

SEQ ID NO:1339

LENGTH:322

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01490

SEQUENCE DESCRIPTION:

GATCTTCCGA GTGCTTGGGG CCCACAGAGA CATCATCCTG GAGAGCATTG CCACTGACAA 60
CCCAGAGGCG CACAGCAACC TCTACATCCT CACGGGCCAC CAGAGCACCT ACTAAGAGCA 120
GCGGGCCTGT CCAGGGGGCTC CCCGNCCCAC CCCACGCCTT AGCTGCAGGC CCTTTTGGGC 180
AAAGGGGGCC ATCCTGGGCC ATCCATTCCA TTTTGTTCCA CATTTCTTTT CTACTCTTC 240
TGCCAAGAGN CTGCCCCTGC ATTTGTCCTG GGAAACACGG TATTTAAGAG AGAACTATAT 300
TGGTATTAAA GNTGGTTTGT TN 322

SEQ ID NO:1340

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01491

SEQUENCE DESCRIPTION:

GATCTTTGGA GCAAAAGCCA ACGGCAGGAA AAAATAGTTT GTACCAGTTT CATGAAGTAT 60
GTCTTTGGGT TTTTGTAAT AATTTTAACT CAAATAAAT TGCTACTTTC AATACAAA 118

SEQ ID NO:1341

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01492

SEQUENCE DESCRIPTION:

GATCAGAATN AAATNTGTAT AGAGCAGACT TTAAAAATGA ATGTAAATAG CACTAAACGT 60

NTNCTTTCTG CAACCTGTAC TTACAGATTC TCCCTGTAAA CTAAATAAAA AAAAANTN 118

SEQ ID NO:1342

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01493

SEQUENCE DESCRIPTION:

GATCACAAAA TGTGCATGAG NGTTATTNAC TTTATTCTNG TACAGTACTA GGATTCCTGT 60

AACCACTCTT TTTTTTCTTC GNNGTATTGA AAAGTGGTTC AGTGTTAACC AGGCAAGN 118

SEQ ID NO:1343

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01494

SEQUENCE DESCRIPTION:

GATCAATTCA CTTAAAAGNA TGGCCCANAT AGCACNNATA GGACCAAGGG ACACATGTAG 60

TCANTTTTAA AAAACATGTA CTTGGTCTTT TGTGTGTGTC TGTTATATTC CATTAGAN 118

SEQ ID NO:1344

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01495

SEQUENCE DESCRIPTION:

GATCCCAGGA GAGCTGGGCT ATGACTGCAA TAAGGAGTTG TTCCTTCACC TGAGATGTGC 60

TTCTTTTGGT TCATTTCTGG CTTGACAACA AGAAATAAAC GTGGTATGTT CCTGAAA 117

SEQ ID NO:1345

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01496

SEQUENCE DESCRIPTION:

GATCTTGAGG GACCAACAT TTGTAGGGGC ACTAATCCAG CCCTTAAATC CCCCAGCTTC 60

CAAACCTGAG GCCCACCATC TCCACCATCT GGTAATAAAC TCATGTTTTC TCTGCTAAA 119

SEQ ID NO:1346

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01497

SEQUENCE DESCRIPTION:

GATCAGATTT GGGTGGGAGA AAGAAGTGGG TATCAAGGGT GATTTGAATT TTCTGCAGCA 60

TTAAAGTGGC GTTAATAAGA TAAGTAATAA TAAAGAATTC TAACATCCAT GTCAAA 116

SEQ ID NO:1347

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01498

SEQUENCE DESCRIPTION:

GATCCGGTGG AAATCCAAGC TCTGGGCTGG TAATTTTAT GAGCATTTTC AGCTTTTGCA 60
AATACAAAT ATAATNCTTT ACAAAAATAA ATTTTATNC TAATCTAAAT CTGAAA 116

SEQ ID NO:1348

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01499

SEQUENCE DESCRIPTION:

GATCTTCTCT ATGATTGATA CATGGCACAG TGAGAGATTA ATGGGCATTG TGTACAAATT 60
GCTTCTCACC ATCCCCATTA GACCTACGAA TAAAGCATCC GGTTCTAAAA TTAAA 115

SEQ ID NO:1349

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01500

SEQUENCE DESCRIPTION:

GATCTTTTGG TAAAAGGACC AAATGTTCTT TTATAAATGT AATAAGGAAT ATCTTGCTCT 60
TTAAAATTTA TTAGGNNTTT AATGAGTAAT TTNATTAAA AGATTTCCTT TTTTGAAA 118

SEQ ID NO:1350

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01501

SEQUENCE DESCRIPTION:

GATCCTATTT GTTTCATTTT ATTGTAAATN CCCATTTGCA TCAAAACCTA ATNATAGTGA 60
TNGGTAAGTA AAAACAAATG GTGTATTGCT TTTCATACAA GTGTTTTCAC AAAAGCCATT 120
TGCCTAGGCA GCAAAAAATA TTAATTTGTT AAAAAAATT TTCCTTCGTG TCCATCCNCA 180
NAAANTNGNG NN 192

SEQ ID NO:1351

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01502

SEQUENCE DESCRIPTION:

GATCTGTGGA CTTTCATCAN ATTATGAGAC TNNCTCAATT TCATGACTGT ACTACCTGAA 60
ACAAAGTGAG AAAGGACAGG TGTATTTTNN TAAGTCATCA AGATAAATCC TTAAN 115

SEQ ID NO:1352

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01503

SEQUENCE DESCRIPTION:

GATCTTAGTT TGTTAGCTTAT GACTTATTTA ATGAATGGAT GCCCAGCCAA GCTCAGAGTA 60
GGCGCCCAA GCATTGTGGA TTATTTTCCT GTTTTGTCTT TTTTTTTTTT TTTTTTNAAG 120
CCATGNCANC CCNGANGGGG CCAGNGANTN 150

SEQ ID NO:1353

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01505

SEQUENCE DESCRIPTION:

GATCGNNAAG AGGTTACCCA GACCACACAC AGTTTGAGAA AACATNCCCA TTATNACCCA 60
TCTAGCAAAG AGGCACCCTA AGTGGTCCAT GAAGAGTTTA ATTTTATNTT AAN 113

SEQ ID NO:1354

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01506

SEQUENCE DESCRIPTION:

GATCGGGTTT AGACGNNAGN TCATTCAGTG AAGCAAGCCA AAAGCNCACA TTTGTATGCC 60
TTAGGTCTTC TAAAATGGT ATCTGTAAAC ATGTGTCCAA TATAAANCT ATN 113

SEQ ID NO:1355

LENGTH:411

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01507

SEQUENCE DESCRIPTION:

GATCCTCCCT GCCCGCGAAG TGNACAGTTT ACAAATTAT TTTCTGCAAA AAAGAAAAAA 60
AAGTTAGGTT AAAAACCAAA AAACACATA TTTTATTATA GAAAAAGTAT TTTTCTCCA 120
CCAGACAAAT GAAAAAAG AGGAAAGATT AACTATTTGC ACCGAAATGT CTTGTTTTGT 180
TGCGACATAG GAAATAACC AAGCACAAG TTATATTCCA TCCTTTTAC TGATTTTTTT 240
TTCTTCTATC TGTTCCATCT GCTGTATTCA TTTNTCCAAT CTCATGTCCA TTTTGGTGTG 300
GGAGTCGGGG TAGGGGTAC TCTTGTCAA AGGCACATTG GTGCATGTGT GTTGCTAGC 360
TCACTTGTC ATGANAATAT TTTATGATAT TAAGGNAAT CTTTGAAAA A 411

SEQ ID NO:1356
LENGTH:112
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01508
SEQUENCE DESCRIPTION:
GATCATGGTG TAATAAGACA TAACGTTTTT CCTTTAAAAA AATTTAAGTG CGTGTGTAGA 60
GTTAAGAAGC TGGTGTACAT TTATGATTTA ATAAAATAAT TCTAAAGGNA AA 112

SEQ ID NO:1357
LENGTH:112
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01509
SEQUENCE DESCRIPTION:
GATCAAGTGC ATTTGACAGA AAAGTTCAGT TTCTTGGGAA GAAACACCTT TTAAGCTGAA 60
TGGAGAAAAT NCCAAAATAA ATTATATCAC CACAATGGTG TATACTCAGA AA 112

SEQ ID NO:1358
LENGTH:112
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01510
SEQUENCE DESCRIPTION:
GATCTGGGAA AAAACAAGA GACTCAATGG AGACAGAAGA AAATCCCAAG GTTCTAATAA 60
CTNCNTTCTN AAAAANTATC TACCCCATTT GGTGAAGTGA AAANCAGAAA AN 112

SEQ ID NO:1359
LENGTH:112
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01511
SEQUENCE DESCRIPTION:
GATCCTGGTT GGAGTAAACA TTCCATGGGA ACTCGGGCTG TNAGAATNTC CTAACCACCT 60
GANTGCAGAA ACATCCTTAT CACATCCTNC TGGGAAAGNC CAACAGCCTG AN 112

SEQ ID NO:1360
LENGTH:112
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01512
SEQUENCE DESCRIPTION:
GATCCATCAC CTGNGCAGCA TAACTGGCTT CNNCTCAGTC ATCCACACAA CACCAGGACT 60
TAAGACAAAT GGGACTCCCT GTCATCTNGA GCTATNCATT TATTTAACT GN 112

SEQ ID NO:1361
LENGTH:111
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01513
SEQUENCE DESCRIPTION:
GATCCCTTCA TTGATGTTTG GAAATTCCAT ATTACATTTT GCACGATATG GTACACATAG 60
TACTTTGGTG TACCTGCTTT TGAAAAATAA AGCTTTGGTC ACCCGGTGAA A 111

SEQ ID NO:1362
LENGTH:111
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01514
SEQUENCE DESCRIPTION:
GATCAGAGAA TGCAGCAGCA GTTTTTTCC TNGTTTNCTT ACCACTTTAT TCTTTCANAG 60
TTTAAAGAAA ATGGACTCAT GCACAGAACA CTATGCATTT NAAAACNGT N 111

SEQ ID NO:1363
LENGTH:111
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01515
SEQUENCE DESCRIPTION:
GATCGGGGGC GTANATNCAT AGTAGTTTTT ACAGCTGTGT TATTCTTTGC GTGTAGCTAT 60
GGAAGTTGCA TAATTATTAT TATNATTATN ATAACANGTG TGTCTTACGT N 111

SEQ ID NO:1364
LENGTH:110
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01516
SEQUENCE DESCRIPTION:
GATCTCAAAA CAGTGCTAAA ATCAAAGNTG TNGACTGTAA AGAAAAACAT GTATATATAT 60
TGCACCTNAA AGTTGTCAGA AGNTAGAAAC TNAATAAAC TAACTTTAAA 110

SEQ ID NO:1365
LENGTH:109
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01517
SEQUENCE DESCRIPTION:
GATCCCACGC CACAGCCTTT TGNTNTGCAA CTGCCTTCTT CGGAAAGAAG AAGTGGGAGG 60
ATGTGAATTT TAGTTCTGAG TTTACCAAAT AAAGAGATAT AAGACGAAA 109

SEQ ID NO:1366
LENGTH:109
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01518
SEQUENCE DESCRIPTION:
GATCATGTAC TGAAGTAGTT TAAGCAGGCT GGCTAACTTA GACTNATTGA TTCTGCNTTT 60
GTACTNNAAT AGGGGTTATA ATTGTAAGAT AAAAATGTGT GTGTNCAAN 109

SEQ ID NO:1367
LENGTH:236
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01519
SEQUENCE DESCRIPTION:
GATCTGGGGG TTTCTTCATA TTCCTGCTGT TGGAAGCAGT TGACCAGAAA TGCTTGNCAG 60
NACTGCCAAA GCACTGCTGT GAAATGTGAA GTACTTTGTT TTTTATTTT TAATNATTTT 120
CTTTTGTGTA TTAATATTTT TCTCTGTTCC TTTGTTATTA CTTGCATGGT TTGGCGTCAG 180
AAGTCCTTAC CTCTTTATAT TGTTGCAGG TTAAATAAA ACAGTGTGGT GCCAAA 236

SEQ ID NO:1368
LENGTH:108
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01520
SEQUENCE DESCRIPTION:
GATCTTGAAG TTATTTTAA GACATACATT TGGTAAGTAA GTTGGTCCCA GGAATGTATG 60
TNNTTAAAC CCTTTCTAAA TATGCAGNCA TTAATAAATA ANATTGTN 108

SEQ ID NO:1369
LENGTH:107
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01521
SEQUENCE DESCRIPTION:
GATCCAACCC AAATCAAATT GTTAAATGCC CTCTTGAATT TTTTGTCTG TTATTTAATT 60
ATATGGTGGG ATTAATAATA AAATAAATT CATGTCTCTG ATTCAAA 107

SEQ ID NO:1370
LENGTH:107
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01522
SEQUENCE DESCRIPTION:

GATCTNGAGC TCTGTCTTCA GCAGATTTCA GGTGTAACAT TTGTAACTC GTACTNGAAG 60
GTGTGTCCTC AAGAAGAAAAG TTTCAAATT AAAAAAGCTG CTGCAAA 107

SEQ ID NO:1371

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01523

SEQUENCE DESCRIPTION:

GATCATGTAC ATTGTAACGT GTGTCGTCAG TACTGCAGTT CCTCAACTTT NTTTGTCTNT 60
NATTACCATG ACATTTTAA AGATACAGCT ATTTNTCGA TGTNAAA 107

SEQ ID NO:1372

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01524

SEQUENCE DESCRIPTION:

GATCACATCT AAAGCTTTAT CTTTGTGTAA TCTAAGTATA TGTGAGAAAT CAGAATTGGC 60
ATAATTTGTC TTAGTTGATA TTCAAGGCTT TAAAAGTCAT TATTCCTGGG CTTGGTAAGT 120
GAATTTATGA GATTTACTGC TCTAGAAAGT ATAGATGGCG AAAGGACCGT TTTGTATTGC 180
TTCCTGATTA CCAGTCTGAT TATACCATGT GTGCTAATAT ACTTTTTTTG TTATAGATTG 240
TCTTAATGGT AGGTCAAGTA ATAAAAAGA GATGAAATAA TTAAAA 286

SEQ ID NO:1373

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01525

SEQUENCE DESCRIPTION:

GATCCGCGCA CCTAAGCCTC CCAAAGTNCT GGAATTACAG GCATGANCTA CCATNCCTGG 60
CCTTCTAATG TTTTTCNTAA TTAAGGCTCT NAACTTCAA GACTGTN 107

SEQ ID NO:1374

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01526

SEQUENCE DESCRIPTION:

GATCTAGAGG NGAGAAAAAG ATGANTTGCT CCTTACATTC GATAATCAGT GACCACGAAA 60
CACTCAGACC AGAGCCTGGC TTATCAAAAA CCTTNAGTGA GNNCTN 106

SEQ ID NO:1375

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear
CLONE:HUMGS01527
SEQUENCE DESCRIPTION:
GATCCACGTG CCATTGTGGA GGCAGAGAAA AGAGAAAGGN TTTATATACG GTACTTATTT 60
AATATCCCTT TTTAATTAGA AATTAAAACA GTTAATNCNC TTCAAA 106

SEQ ID NO:1376
LENGTH:117
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01528
SEQUENCE DESCRIPTION:
GATCCTGAGC TCCCTTTGCA GTCTGAAAAA GGTATTGCAG TCAGAACTGT GTACTGATGA 60
TAAANGCCTC TGGTAGCAAT AAAAAGTTGT CCCTAACAAA AGAGGCAAAA AAATAAA 117

SEQ ID NO:1377
LENGTH:105
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01529
SEQUENCE DESCRIPTION:
GATCCAGCAA ACAGGTTCTN TTAAAGAAAA ATAATTTATA CTAAATTNAG TAAAATGGAC 60
TTCTTATTCA AAGCATCAAT AATTAAAAGA NTTATTTNAA TGAAA 105

SEQ ID NO:1378
LENGTH:105
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01530
SEQUENCE DESCRIPTION:
GATCAGCAAA ATGAGATAAA TGTTTCTNTT TTCCTTTCTG ACTGCATTAA ATCAGATACA 60
ACTCAGCATT AAAAAGCTAT CTNTGTAAAT NTNGTNACTA ATAAN 105

SEQ ID NO:1379
LENGTH:105
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01531
SEQUENCE DESCRIPTION:
GATCTAACAC GAGGAACATA TCATGGAAAG TGCATNGTAT NTATTTTAGG GTTATGAGTT 60
CTTTCAAGGG CTAAGNTGCA GAGNATTTCC TCCANGAATC GTGTN 105

SEQ ID NO:1380
LENGTH:105
TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01532

SEQUENCE DESCRIPTION:

GATCAGGTTA CATGAGGGNT CACTCTTCTT GTTGACANN CTGTGAGTTC GGGCAAATNT 60
GTAATGGCAT ATCTCCACTA TTACAGTNTC ACACAGAATT ATTTN 105

SEQ ID NO:1381

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01533

SEQUENCE DESCRIPTION:

GATCGGTGCG TTCTCCTGAT GTTTTNCNT GGCTTGGGGA TTGTACACGG GACCAGCTCA 60
CGTAATGCAT TGCCTGTAAC AATGTAATAA AAAGCCTCTT TCTTTTGGG GTGGNNNTTG 120
TCCTTCTGTC AGCTAAAATG GGAGCTCATG AGAGAAGGAC GTCAGGGAAA CGGGGTTGAG 180
GGTGGTCTCG GTGCAGAGAG AAGGGTGTCA GGGAAACGGG GGGTGAGGGT GGTCTTGGTG 240
CCAGACGTAG GGAATGGTGT TGGGAGTGGC CCGAGTGCCT GGCACAGTTG TCTNGTTCAT 300
TCATGTAACA TGATAATTTT TAAATCATTAA AA 332

SEQ ID NO:1382

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01534

SEQUENCE DESCRIPTION:

GATCCTGCTG CTGTAATGGG AACCCCTCCC CCATTTACTT CTCCACCTCC CGTCCTCCCC 60
ATCATTGGTT TTTTTTGTG TGTCAACTGT GCCGTTTTTA TTTTATTCCT TTTATTTTCC 120
CCCTTTTCAC AGAGAAATAA AGGTCTAGAA GTAGAAA 157

SEQ ID NO:1383

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01535

SEQUENCE DESCRIPTION:

GATCTACTGT TTGTTGAAGT GTGGGAAAAT AGCCTCTCTA AGGCAGCCCA GATGGGACCA 60
AAATCAGTAC AAACATATTT AAGTAAATTT TAAATGCGT AAA 103

SEQ ID NO:1384

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01537

SEQUENCE DESCRIPTION:

GATCCCCTTG TCCCTGGAGT AGGGACTAAC TATAGCACAA AGTAATATGT GCCAATGCTA 60

TTTGTGAAAT GTTTGGGCTT TCTAAACGAC TAAAGGATTT GTNGGGTTTT TNCTTAAGTT 120
TTGAACCAAA TCCTAGAGCC AGCTGATAAT ATTTAATAAT CTAGAGGAGA GAATAATGAT 180
GTACCANTAA GTGGAGATTC CTCCTTATGA TGTATGCTAG GTTATGGAAG ATGTAAAATA 240
TTCAACTTTT TCCTNCGTTT TTTGGACTTT GTATTTTACT GNAN 284

SEQ ID NO:1385

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01538

SEQUENCE DESCRIPTION:

GATCTGGAAC TCCTAAGCCA TCTACTCCTA CACCAACCNN TTCATCGAAC NCACACCCTN 60
CTNATGCTCA GAGCTCAACT CCTAGTACCC CTTCAGCCAC CCN 103

SEQ ID NO:1386

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01539

SEQUENCE DESCRIPTION:

GATCGCCGTT CTGTTTNGCA TNNTCCCACC GGGAGTTGCC NGGCAGGAGC ATGGGGTGCT 60
TGGTTGTTTC CTTCTAATA AAATAAACGC GGGTCGCCAT GAAA 104

SEQ ID NO:1387

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01540

SEQUENCE DESCRIPTION:

GATCTTAGCC TTAGGGTAAG TAAATGGGT CTTTAAATAT AANAGTGTGA AAACATTTTC 60
NATCTAATAG TACTCTTTTN AATAAAAGTC AGTAGTNGGA AA 102

SEQ ID NO:1388

LENGTH:378

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01541

SEQUENCE DESCRIPTION:

GATCCTNGGT TTTTGTGGTT TGACTTCTAT GGNGTTTTAA AAAACACAG ATTTTATAGT 60
TTAATATTGT GTAAATGTAC TCACCTTAGG GATTCATTG AATGATGGTN TTATACCATG 120
ATTGNTTACA GTTTGTGAAA TTGTTGCAAG GGCAAAGATA ACTCTTAAAA AACCGTCGAG 180
ATTACAATGC TCTAGAATCA GCATATAAGA AAATAAATGA TATCTNCATG TNGANTNNGG 240
GTGGATGGGG GGAGCACGCA TAATTTTAA GTGTGAAGCT TTGCATCANA GAAATTATTA 300
AAANGCTTTT TTNCTCCNGT ATNTTCCTGT ATTAATCCTT AATGTTTATG GCAAATAAAA 360
TGTAAGGGGN ACATGAAA 378

SEQ ID NO:1389
LENGTH:102
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01542
SEQUENCE DESCRIPTION:
GATCGTAACC GTAACCGTAA CCGNNAAGCA CAAACGGGGG GAGCGGGGCA GTGAGCGGGG 60
CAGGNATGAG NCCCGAGGTG GGGTCGGTGG CCAGNACAAC GN 102

SEQ ID NO:1390
LENGTH:102
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01543
SEQUENCE DESCRIPTION:
GATCCAGAGG TCCNNGTCAC TTGGAGAAAG NCCAGTCCCT GNGACGGGGC AGCCCTCTNT 60
GTCCCTCGGG CAGCTCGTGT GAATCCTGGG ACCTCTTCCG GN 102

SEQ ID NO:1391
LENGTH:101
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01544
SEQUENCE DESCRIPTION:
GATCTCAGCA ATTTGAACAC TAACCTCTCC CCTCCTGGCT CAAGAATTAC TCCGAAGTCA 60
GTCTGCAGAA AATAAATATT TAGTATGACA TGACACTTAA A 101

SEQ ID NO:1392
LENGTH:101
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01545
SEQUENCE DESCRIPTION:
GATCTACTCA GGCAACNACC AATCTTCTAN TCTGTCACTA TAGATTAATT TGCATTNTTA 60
AAGAAATNNA CATACTGGA ACCATACATC ATCTATGCTT N 101

SEQ ID NO:1393
LENGTH:101
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01546
SEQUENCE DESCRIPTION:
GATCCTAGGA AGTNTGTCCC TGTCTCCCT GTGCAGGGTA TCCTGTAGGG TGACCTGGAA 60
TTCGAATTCT NTTTCCCTTG TAAATATTN NTNTGTCTCT N 101

SEQ ID NO:1394

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01547

SEQUENCE DESCRIPTION:

GATCCACGTG CCATTGTGGA GGAGAGAAAG AGAAGTGTTT ATATACGGTA CTTATTTATA 60
TCCCTTTTAA TTAGAATTAA AACAGTTAAT TTAATTCAAA 100

SEQ ID NO:1395

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01548

SEQUENCE DESCRIPTION:

GATCTTAGGT TACATAAAGT TTCTAAAGTT TCAAAGAGTC TTGATACAAA ATCAGTTTAT 60
ATTCTGAAAA TATTTATAAT AAAGTATTCT AATTTCTAAA 100

SEQ ID NO:1396

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01549

SEQUENCE DESCRIPTION:

GATCAATTCT TCAATTTGAT TGAAGTGTTT AGCCTTTTCA AGATTTCTTT ATTTACAAAT 60
GATTACATTT AAATGAATGT ACATTCTTCT CACTGAAA 98

SEQ ID NO:1397

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01550

SEQUENCE DESCRIPTION:

GATCTGTAAC ATTTGTTTCA AAATGCTGTT TCATTTTAT AAAGTACCAG TGTTTAGCTG 60
CTTTTATAC ATTAAATTAG CAATTGAAA AACTCAAA 98

SEQ ID NO:1398

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01551

SEQUENCE DESCRIPTION:

GATCCTCAGT GTCCTTACCC CCTCCTACCT CTTTTCTGTG CCACCTGCTG TGGGTCCAGC 60
AGGCNTTAC TTGAGTACAA TAAAAAGTCT GAGTCAAA 98

SEQ ID NO:1399

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01552

SEQUENCE DESCRIPTION:

GATCCAAGTG TAGTGGGACC CCCTACTAGG GTCAGGAAGT GGACACTAAC ATCTGTGCAG 60
GTGTTGACTT GAAAAATAAA GTGTTGATTG GCTAGAAA 98

SEQ ID NO:1400

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01553

SEQUENCE DESCRIPTION:

GATCTCCAAA GTGGTGAGTT TATGTGTGAT TTTTATTTTG TTTATGCTCT TCTGTATTTT 60
CCGAATTTCA TACAATAAAT ATCTGTTACT TTTACAATAT GAAA 104

SEQ ID NO:1401

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01554

SEQUENCE DESCRIPTION:

GATCCAGAGA GTTCAAGGGA TTGGGGAAAG AGAGGCGTCA AGTCATTTGC ACTTTGTACC 60
TGTAAGTTAG GTAATAAACT ATTATACTCG TAAA 94

SEQ ID NO:1402

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01555

SEQUENCE DESCRIPTION:

GATCTAGTNT CTNGCATTTT TATTATGTTG CTATATACTT TTGTTATCCG TATACTAAAA 60
AAAAAGAATA AATAAATGTT TTGATTGTGA AA 92

SEQ ID NO:1403

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01556

SEQUENCE DESCRIPTION:

GATCTNTACA TTCTTCAGAC TCATCGTGTG TTTGANACTT TTTATAATGA ACATATATCA 60
TTTTNNTTAG AAAAGAATAA AGTTTTTGAA AA 92

SEQ ID NO:1404
LENGTH:119
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01557
SEQUENCE DESCRIPTION:
GATCCTCTGG GGAAGCCAGG ACCAGGAGAG AAGCAAGGTC AAGAAATCCC ACAGTTTGAT 60
GTATTAAAGA AATNACTTAT TTCTACTCAA AATAAATGGC ATTGAAGTCT TTCTTTAA 119

SEQ ID NO:1405
LENGTH:90
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01558
SEQUENCE DESCRIPTION:
GATCTTGTGT CTCCTCTCCA TCTCTGCCTT TGTTACCAGT GTGCATGTGT TTGTGTGTTT 60
TTTAATAAAA TATTGACTCG GCCAGTTAAA 90

SEQ ID NO:1406
LENGTH:90
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01560
SEQUENCE DESCRIPTION:
GATCTGTTAT GGCATTCACT TCCAGATTAA TTTTCCGTGT TTGAAGTATG TNCATATGTN 60
CTTTACAGAA TAAAACATCT GAATTTTAAA 90

SEQ ID NO:1407
LENGTH:87
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01561
SEQUENCE DESCRIPTION:
GATCCATTTT CTTTCAAAAT TTTCTTTATT GTAAAGTATG CAAAATATAT ATTCATACGA 60
TTTATTAAAT CAGAATGTTT ATACAAA 87

SEQ ID NO:1408
LENGTH:85
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01562
SEQUENCE DESCRIPTION:
GATCTGGAAT CCTTTTCTG CATTGACAAG GACCACAGCT AAAGGACAAT AATATGAATG 60
ACTCATTAAT ATCTCAAAAC TTAAA 85

SEQ ID NO:1409
LENGTH:85
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01563
SEQUENCE DESCRIPTION:
GATCCAAGTT ATNTTNAGAA GAAAAACCTA ATTGAACAGG TATGGGTTGG GAGCATAATA 60
AATGTGTTTT GAGAATTGTT CTAAA 85

SEQ ID NO:1410
LENGTH:84
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01564
SEQUENCE DESCRIPTION:
GATCATTATT TCATGACTGG TGCCTTCCTA AACTCTGAAA TCAGCCTTGC ACAAGTACTT 60
GAGAATAAAT GAGCATTTTT TAAA 84

SEQ ID NO:1411
LENGTH:84
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01565
SEQUENCE DESCRIPTION:
GATCTAAGCC CATGAGCACA GGGACTGGCT ATCCCAAGAC CTGGCAGATG TGGCTGCTCA 60
ATAAACACTT GTTGAACCAT CAAA 84

SEQ ID NO:1412
LENGTH:86
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01566
SEQUENCE DESCRIPTION:
GATCACCCAA GGGTTTTTTT GTGTCGGACT ATGTAATTGT AAACCTATACC TCTGGTCC 60
CATTAAGT NCCCATTTNA GTTAAA 86

SEQ ID NO:1413
LENGTH:83
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01567
SEQUENCE DESCRIPTION:
GATCTGTGTT TGTATCCCTT TATGTAATGT AAAATTTAAG GGTATTTTGA TTCTAAATAT 60
GATAAAATAA TTTCTCACCT AAA 83

SEQ ID NO:1414
LENGTH:83
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01568
SEQUENCE DESCRIPTION:
GATCAGCAGT CCACCACAAA AGCTTCTGTT AAAAGACCCT ACACAAATGC ACAAATTCAG 60
ATTAAACAAG GAAAAGACGG AAA 83

SEQ ID NO:1415
LENGTH:83
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01569
SEQUENCE DESCRIPTION:
GATCTTGGTG TTCAAAACAG AACTGTATTT TTGCCTTTAA AATTAAATAA TATAACGTGA 60
ATAAATGACC CTATCTTTGT AAA 83

SEQ ID NO:1416
LENGTH:82
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01570
SEQUENCE DESCRIPTION:
GATCCTTCTG TAAAGGTTTT TGGAATTATG TCTGCTGAAT AATAAACTTT TTTGAAATAA 60
TAAATCTGGT AGAAAAATGA AA 82

SEQ ID NO:1417
LENGTH:86
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01571
SEQUENCE DESCRIPTION:
GATCTGCATA TTTCTGTATA TTTGTCATGA CAGTGCTTGC ATCCTATTTG GTGTACTCAG 60
CAAATAAACT TTTCATTTTA AACAAA 86

SEQ ID NO:1418
LENGTH:81
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01572
SEQUENCE DESCRIPTION:
GATCCCAACA TGGTCCTAGC ACTGCACACT CAGTTTTNCT CTAAGAAGCT GCAATAAAGT 60
TTTTTNAAGT CACTTTGTAA A 81

SEQ ID NO:1419
LENGTH:81
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01573
SEQUENCE DESCRIPTION:
GATCTTCANT TAATCNC ACT TTA AAAATGA CCAAAACATG TCTTTCTTGA ATTAAC TTTG 60
AATAAAAGTT TGTATATTAA A 81

SEQ ID NO:1420
LENGTH:81
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01574
SEQUENCE DESCRIPTION:
GATCAGAGCT CAGTTCCTGT AGAAAACGAA CTGTAAAAGA CCATGCAAGA GGCAAAATAA 60
AACTTGAAGT GAATGCTTAA A 81

SEQ ID NO:1421
LENGTH:80
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01575
SEQUENCE DESCRIPTION:
GATCTTGGGT TTGGTCTACC CACCCAAGAG AAAAGACTGT TAACTGGAAG AAAAAATATA 60
TATATNNAAT TTTATGTAAA 80

SEQ ID NO:1422
LENGTH:79
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01576
SEQUENCE DESCRIPTION:
GATCACAATT ACCTTTAGTT GTTTTTTTTG TAATAATTGT AGCCAAGTAA ATCTCCAATA 60
AAGTTATCGT CTGTACAAA 79

SEQ ID NO:1423
LENGTH:79
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01577
SEQUENCE DESCRIPTION:
GATCCTTATG AATGACAGGT TACTGTTTTG CCTTATTGCT TAACTTAATG TAGTGAAATA 60
AAGCAGACAA AGCTTGAAA 79

SEQ ID NO:1424
LENGTH:79
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01578
SEQUENCE DESCRIPTION:
GATCTTCTGC ATGAGACCTG GAGTTGGGGA AGCAAGGTTA CATTGTATT NGTTTATCCT 60
ATGAATACTN TTCTCAAA 79

SEQ ID NO:1425
LENGTH:78
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01579
SEQUENCE DESCRIPTION:
GATCAGGCAG TCTGCTCAGA TACATTGAGT GGCGATTTTA AGTTTGT TT TGAAAAAATA 60
AACAGATTAA CCTGCAAA 78

SEQ ID NO:1426
LENGTH:78
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01580
SEQUENCE DESCRIPTION:
GATCTAAATT TCTAATGTGT TCTATGGGTT TCAATTCTGA AAAAAGAAAA TGAATAAAGA 60
TTTAAATAAA TATTGAAA 78

SEQ ID NO:1427
LENGTH:78
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01581
SEQUENCE DESCRIPTION:
GATCTTCATT GTGCTGGGTG CCAGGNCAGT NATCCATTTT AAAATTTGTA ATTCAATAAA 60
GTTTTTTTTG TTNTAAA 78

SEQ ID NO:1428
LENGTH:77
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01582
SEQUENCE DESCRIPTION:
GATCTCCAGG CTTGGCCTCC AGAGCAGCCC ACACCAACNC CAAAATAAAA AAATGTATAT 60
ATTCCTTTAG CTCTAAA 77

SEQ ID NO:1429
LENGTH:76
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01583
SEQUENCE DESCRIPTION:
GATCCCAGGG ACCTCAGTCG GCTTAATCAG AGTGTGGCAT AGAAGCTATT TAATGATTAA 60
AGTCATTTGC AGTAAA 76

SEQ ID NO:1430
LENGTH:76
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01584
SEQUENCE DESCRIPTION:
GATCAAACCTT TTATGTTCT TAATAAGCTT GCAATTGANT AAAATAGAAT ATAAAATAAA 60
GGTGAAATAA TATAAA 76

SEQ ID NO:1431
LENGTH:79
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01585
SEQUENCE DESCRIPTION:
GATCCCAAGT ACAATGAAAA GTTTGCACTG TATGCTGGAC GGCATTCCTG CTTATCAATA 60
AACCTGTTTG TTTTACAAA 79

SEQ ID NO:1432
LENGTH:75
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01586
SEQUENCE DESCRIPTION:
GATCTCCAAC NTTGAAAAAT ATACATGATG TGAAACTGNG GGTNCTATGT TAAAAATAAA 60
TGTATGATAA CTAAA 75

SEQ ID NO:1433
LENGTH:74
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01587
SEQUENCE DESCRIPTION:
GATCCAAACA TTTTTTTGTG TGTGTATGGC ATTGATGCAG AATAGAATAA AATTATACTT 60
AAGTTCCTTT TAAA 74

SEQ ID NO:1434
LENGTH:73
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01588
SEQUENCE DESCRIPTION:
GATCCCGGCG CGGAAAAGTC ACAGAGCTGC CTGGGCTTGT ACCTGGNCAC ATAAAGCCCC 60
ANTTTAAAGC AAA 73

SEQ ID NO:1435
LENGTH:73
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01589
SEQUENCE DESCRIPTION:
GATCCCANAG CNATAAAATA AAATTTTATT CCAAATAAC AAAACAAATT NATCTACTGT 60
ACACAATCTG AAA 73

SEQ ID NO:1436
LENGTH:72
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01590
SEQUENCE DESCRIPTION:
GATCCCAGGC TTCTGCGGAC CGACGATACG TTAAATGTT GTTCTAGTAA AGTTTTCGAT 60
ATGTTTCTGA AA 72

SEQ ID NO:1437
LENGTH:71
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01591
SEQUENCE DESCRIPTION:
GATCCCTTGG NGGNCTAGTT CGTATTTTGT TTTAAACTA TTTGTTAGAA TAAAGTAATT 60
TTGCTAATAA A 71

SEQ ID NO:1438
LENGTH:70
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01592
SEQUENCE DESCRIPTION:
GATCTTAAGT ATAAAAATTT TGTAATTGGG CCTTTACTCT CTCAATAATA AAGTATTTTG 60
TTTATATAAA 70

SEQ ID NO:1439
LENGTH:68
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01593
SEQUENCE DESCRIPTION:
GATCTGTATT TTCTAAGTCC CCAGTTCTCC TGGCTCTCCT TTCTGAAATA AAGGATTGAA 60
AACNGAAA 68

SEQ ID NO:1440
LENGTH:67
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01594
SEQUENCE DESCRIPTION:
GATCTGTTTT TAAAAATCAT AAAGTGTGTG CAGACTCAAT AAAATCATGT ACATTTCTGA 60
AATGAAA 67

SEQ ID NO:1441
LENGTH:71
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01595
SEQUENCE DESCRIPTION:
GATCAACAGT TACTGTNACT GAGTCGGCCC ATTCTGTTTA GAAATATATT TNAAATGTTT 60
AGTAATTGAA A 71

SEQ ID NO:1442
LENGTH:66
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01596
SEQUENCE DESCRIPTION:
GATCTGCCAT TTCATGCCNT GTGACTACNN ATCATTGGCC CTGCAATAAA ATCATTTATT 60
TTTAAA 66

SEQ ID NO:1443
LENGTH:64
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01597
SEQUENCE DESCRIPTION:
GATCCTGCAT GCTACTCTTA GATAGAAGAT GGCAAAACCA TGGTATTAAA ATATGAATGA 60
TAAA 64

SEQ ID NO:1444
LENGTH:64
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01598
SEQUENCE DESCRIPTION:
GATCAAGTCA CTNTTGACAA CATCCAGGNG AATATAAAAA CTTAATAAAG CTGTGGAAAG 60
GAAA 64

SEQ ID NO:1445
LENGTH:62
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01599
SEQUENCE DESCRIPTION:
GATCAATTGG TTAACTTCT TTTATGTAAG TATGGTATAT AAATTTCAAG ACGAACACTA 60
AA 62

SEQ ID NO:1446
LENGTH:62
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01600
SEQUENCE DESCRIPTION:
GATCACTTTT CACTTTTTGG AATGTTTTGT ATTGAACTT AATAAACTT TAACATGGCA 60
AA 62

SEQ ID NO:1447
LENGTH:62
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01601
SEQUENCE DESCRIPTION:
GATCGNTCTC AGGCCCTCCC CCCGGAGTAC TTCAGAATGC AATAAATCAA AATAATGGCA 60
AA 62

SEQ ID NO:1448
LENGTH:62
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01602
SEQUENCE DESCRIPTION:
GATCTGTATG TGTTCTATTC AGCACAAGGA AATAAAATTT TAGTTGAGGA TTCAGCACTA 60
AA 62

SEQ ID NO:1449
LENGTH:62
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01603
SEQUENCE DESCRIPTION:
GATCCCCATT CTTTCAAAA ACAAATAAA ACAATAAGA CTGCAAGGAA GACTGANGGA 60
AA 62

SEQ ID NO:1450
LENGTH:62
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01604
SEQUENCE DESCRIPTION:
GATCCAGTCT GGAATAACAT TTTGTAAAA AAAATATAT ATATATATAT ATATNGCTGA 60
AA 62

SEQ ID NO:1451
LENGTH:61
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01605
SEQUENCE DESCRIPTION:
GATCGGGGGC ACCAGAGGGG CAGAGGCACC AACATCTGAA TAAAGCCATT GTTCTCCCAA 60
A 61

SEQ ID NO:1452
LENGTH:61
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01606
SEQUENCE DESCRIPTION:
GATCTTGAC NTCTCGCATT CAGAACTGTG AGAAATAAAT ATCTATTATT TACAAATTAA 60
A 61

SEQ ID NO:1453
LENGTH:60
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01607
SEQUENCE DESCRIPTION:
GATCTCCGTC TTGTATGGCT GAATGTTGGC CTAAAATAAA GATTACTGTT GTAAAATAAA 60

SEQ ID NO:1454

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01608

SEQUENCE DESCRIPTION:

GATCTGTGGA GAATGTACAC AGTTTAAACA CATCAATAAA TACTTTAACT TCCACCGAGA 60
AA 62

SEQ ID NO:1455

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01609

SEQUENCE DESCRIPTION:

GATCAAGAAT CCTGCTCCAC TAAGAATGGT GCTAAAGTAA AACTAGTTTA ATAAGCAAAA 60
AAAAAAACCA AA 72

SEQ ID NO:1456

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01610

SEQUENCE DESCRIPTION:

GATCTAGATG TTTCTTTAAC CAAGATGAAT TAAAATATAG TAGAGTTCCA CTGTNCAAA 59

SEQ ID NO:1457

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01611

SEQUENCE DESCRIPTION:

GATCAAATTG TACCTTTTGA GAGAAAAGGA CCAAATAAA AGAAAAATGA ATTATGAACT 60
AAA 63

SEQ ID NO:1458

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01612

SEQUENCE DESCRIPTION:

GATCAGCAGT CTTGGATGGN AGGNAACAAA GCTAAATAAA TGTTAGTTTG GTGAGCAAA 59

SEQ ID NO:1459

LENGTH:65

00660

TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01614
SEQUENCE DESCRIPTION:
GATCTCCCTT ATATTCTTAT GATGAGGCTA AATAAAAGTC TAATAAAAAT GTTAAATATG 60
TGAAA 65

SEQ ID NO:1460
LENGTH:56
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01615
SEQUENCE DESCRIPTION:
GATCAAAATC AAGTTTAAAG TTTTTTGAC CAGATAAATT TAATGATTTT GGCAAA 56

SEQ ID NO:1461
LENGTH:58
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01616
SEQUENCE DESCRIPTION:
GATCTTAATT ACTTTCAGAA TATTTTCAA ATAGATATAT TTNAAAATC CTTACAAA 58

SEQ ID NO:1462
LENGTH:55
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01617
SEQUENCE DESCRIPTION:
GATCGTTCTT CTCTCCGTAT TGGGGAGTGA GAGGGAGAGA ACGCGGTCTG AGAAA 55

SEQ ID NO:1463
LENGTH:55
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01618
SEQUENCE DESCRIPTION:
GATCCCTGAG ACGGGGTAAG TTATAATAAA CAGAAATGTA TTGGCTCAGA AGAAA 55

SEQ ID NO:1464
LENGTH:55
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01619
SEQUENCE DESCRIPTION:

GATCTGTTAT GTATTTCAAC ATAATCATGT TTCATAAAGA TTAGTCTTC TGAAA 55

SEQ ID NO:1465

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01620

SEQUENCE DESCRIPTION:

GATCCACCT TTGCTCCTGA CAACCCTCAT TTCAATAAAG ACCAGTGAAG ACCAAA 56

SEQ ID NO:1466

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01621

SEQUENCE DESCRIPTION:

GATCAGAATC CTGCTCCACT AAGAACGGTG TAAAGTAAAT TAGTTATAAG CAAA 54

SEQ ID NO:1467

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01622

SEQUENCE DESCRIPTION:

GATCTTGAGC CTTAACTGGA CATGAGGGGC ATGAAAATAA AGCTGAACTG CAGCCTCCTG 60
AAA 63

SEQ ID NO:1468

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01623

SEQUENCE DESCRIPTION:

GATCTTTTCT AAATGTTATT ACTTGTAAT AAAGTCTATT TTTCTCCCGT GAAA 54

SEQ ID NO:1469

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01624

SEQUENCE DESCRIPTION:

GATCTGTATA TTTTCTTCTA AGAGAAAATG TAAATAAAGG ATTTCTAGAT GAAA 54

SEQ ID NO:1470

LENGTH:54

TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01625
SEQUENCE DESCRIPTION:
GATCTGCGCA TATATATATA TGTATAAAAA ATAATAAAAT AATGGAAGNT GAAA 54

SEQ ID NO:1471
LENGTH:54
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01626
SEQUENCE DESCRIPTION:
GATCCTAAAT NCACGCACCC CGTGGGAGCN CAATAAGAT TTACTGAATT GAAA 54

SEQ ID NO:1472
LENGTH:53
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01627
SEQUENCE DESCRIPTION:
GATCCGCCAT CTGTAATGTC CTTGGCACAA TAAAACCAA TGTCAGTTTC AAA 53

SEQ ID NO:1473
LENGTH:52
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01628
SEQUENCE DESCRIPTION:
GATCCCTAGT GATTACAGCC CTGAAGAAAA TTAAATCTGA ATTAATTTTA AA 52

SEQ ID NO:1474
LENGTH:52
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01629
SEQUENCE DESCRIPTION:
GATCCAGTGT GGATTCTTNG AGTAATAACG TTGGTTTTAT TTATCATATA AA 52

SEQ ID NO:1475
LENGTH:52
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01630
SEQUENCE DESCRIPTION:
GATCTTCAAT GTTTATTTTA AAATAAAATA AAATAAGTTC TTGACTTTTA AA 52

SEQ ID NO:1476
 LENGTH:56
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01632
 SEQUENCE DESCRIPTION:
 GATCTTGAAT GAAAGTCTTC TCAGGCTGTA GGGTGGTTCC TACAACCACA GCCAAA 56

SEQ ID NO:1477
 LENGTH:51
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01633
 SEQUENCE DESCRIPTION:
 GATCTCATCT GAATCCCCAA CACCCAATAA AGTTCCTTTT TAACACACAA A 51

SEQ ID NO:1478
 LENGTH:55
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01642
 SEQUENCE DESCRIPTION:
 GATCAAAATC CTATTTAGAA AAAATAAAAC TACTTTCTGT TTATCTCTTT AGAAA 55

SEQ ID NO:1479
 LENGTH:34
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01671
 SEQUENCE DESCRIPTION:
 GATCCAAAAA CATCCGTGAA CCTCTGTCTG TAAA 34

SEQ ID NO:1480
 LENGTH:305
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01673
 SEQUENCE DESCRIPTION:
 GATCAAAATA AAGGATGATA ATAGATATTA TTTTNNCTTA TGACAGAAGC AAATGATGTG 60
 ATTTATAGAA AAAGTGGGAA ATACAGGTAC CCAAAGAGTA AATCAACATC TGTATACCCC 120
 CTTCCAGGG GTAAGCACTG TTACCAATTT AGCATATGTC CTTGCAGAAT TTTTTTTTCT 180
 ATATATACAT ATATATTTTT AACCAAAATG AATCATTACT CTATGTTGTT TTACTATTTG 240
 TTTGACATAT CAGTATATCT GAAACACCTT TTCATGTCAA TAAATGTTCT TCTCTAACAT 300
 TTTAAA 305

SEQ ID NO:1481

LENGTH:734

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01686

SEQUENCE DESCRIPTION:

GATCCAGCCC ATTCTCTACT CTTACTCCTT TCATGGGCCA CCAGAGCCAG TACTCTTGGA 60
TAGCAGCAGC ATTCTAGCTG ACAGAATTTT GCTGATGGAT ACTTTCTTTC AAATTGTCAT 120
TTATCTTGGT GAGACCATAG CCCAGTGGCG TAAAGCTGGC TACCAGGACA TGCCCGAGTA 180
TGAAAACTTC AAGCACCTTC TGCAGGCACC ACTGGATGAT GCTCAAGAAA TTCTGCAAGC 240
ACGCTTCCNG ATGCCACGTT ACATCAACAC GGAGCATGGA GGCAGTCAGG CTCGATTCTT 300
TTTGTCCAAA GTGAACCCAT CTCAGACACA CAATAACCTG TATGCTTGGG GACAGGAAAC 360
TGGAGCACCC ATCCTAACTG ATGATGTTAG CCTGCAGGTG TTCATGGACC ATTTGAANGA 420
AGCTGGCTGT CTTCCAGTGG CCTGTAAAG CTGAGGATAC AACCAGGGAA ATGCAAACGG 480
TNTCAAGATT TGGTGGTTCA AAATTGTCTA GAAAGGGTTT GATAACCATT CCNGGTTACT 540
TTTTCTTNGG ANGTTTAAAC CAAATAATCA ANGGCNATTT TATTATGGAA CCTCTTTAGG 600
TTATAATTNA TTNGGAATNC CGNCNTTGGC CTTTCTTGN CCTTTAAATT TTAAGGGAAN 660
AAANNTTGG GCNTNAGGNG GTTNNGGNTT TTTGGNNCNA ACTTTNGGGN TTAATAAANC 720
NGGGGNNTNT TAAA 734

SEQ ID NO:1482

LENGTH:731

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01687

SEQUENCE DESCRIPTION:

GATCAACCGG AGCGCTTCCG AGCCATCCTT GCATCGGGCA GCCCACACTG AGGATATCAA 60
TGCTTGCACG CTGACCACGT CCCCAGAGGT GCCTGTNTTC TAGTTGACTT TGCACCTGTN 120
TTCAGGCTGC CAGGGGAGGA GGAGAAGCCA GCAGGCACCA CTTTTCTGCT CCCTTTCTCC 180
AGAGGCAGAA CACATGTTTT CAGAGAAGCT GCTGCTAAGG ACCTTCTAGA CTGCTCACAG 240
GGCCTTAACT TCATGTTGCC TTCTTTTCTA TCCCTTTGGG CCCTGGGAGA AGGAAGCCAT 300
TTGCAGTGCT GGTGTGTCCT GCTCCCTCCC CACATTCCCC ATGCTCAAGG CCCAGCCTTC 360
TG TAGATGCG CAAGTGGGAT GTTGATGGTA GTACAAAAG CAGGGGCCCA GCCCAGCTGT 420
TGGCTACATG AGTATTTAGN GGGAAGTAAG GTAGCAGGCA GTCCAGCCCT GANNTTGGAG 480
ACACATGGGG TTTTGGAAA TAAGNTTCTT GNGGGATGAA TGTAACAGGN GGGNTTCTT 540
CANGGAGTGG TNCAGCNCAG ACATTTNNAC ATAAGGACCA AACAGCCCAG NNTNCCGNAT 600
TTTGNCCCC AAGNGCCTTT TTTGGACTTG GANCTTTNTT NGGGGAAAGC CNCTTNAANG 660
TTTAAGNGCC AGNATNGGTG TTTGNGAAG NATTGCCATC CGATTTAGCC TTTANGGGAN 720
GTTCCANAAG N 731

SEQ ID NO:1483

LENGTH:687

TYPE:nucleic acid

TOPOLOGY:linear

00665

CLONE:HUMGS01688

SEQUENCE DESCRIPTION:

GATCGGTGGC TCCATCCTGG CCTCACTGTC CACCTTCCAG CAGATGTGGA TTAGCAAGCA 60
GGAGTACGAC GAGTCGGGCC CCTCCATCGT CCACCGCAA TGCTTCTAAA CGGACTCAGC 120
AGATGCGTAN ATTNTGCTGC ATGGGTAAAT TGAGAATAGA AATTTGCCCC TGGCAAATGC 180
ACACACCTCA TGCTAGCCTC ACGAAACTGG AATAAGCCTT CGAAAAGAAA TTGTCCTTGA 240
AGCTTGTATC TGATATCAGC ACTGGATTGT AGAACTTGTT GCTGATTTTN ACTTTGTATT 300
GAAGTAACT GTTCCCTTG GTATTAACGT GTCAGGGCTG AGTGTTCTGG GATTTCTCTA 360
GAGGCTGGCA AGAACCAGTT GTTTTGTCTT GCGGGGTCTT GTCAGGGTGG GAAAAGTCCA 420
AGCCGTAGGA CCCAGTTTC CTTTCTTAAG CTGATGTCTT TTGGCCAGAA CACCGTGGGC 480
TNGTTAATTG CTTTAAAGTT GGGAAGCGGT TTGCAATTAC GGCNCTAAAA NGTATTATC 540
CTNAATTNAA GGAAAGGGTT TTTTTGTAC CGAAANNNGC ATTCTTTGAA GNGNTGNCAC 600
CAAATTTTGG GTTTTCANCC GGTAAGGGGN GACATTAGGN CCCAGNACAA GGNATTNTGA 660
AAGGGAANAN AANGGCNNCC GAAAAAN 687

SEQ ID NO:1484

LENGTH:649

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01689

SEQUENCE DESCRIPTION:

GATCAAAC TGATTGCCAG GCCAGCTCCT GAAGAACTGT GAACTATGAA CGTCTCAGCC 60
TAGAAGGATA ATGTGACCTT CAATTTGCAC ACCATCCATT GTCTCTTTCA AACTAAGAGC 120
CTCTCTAAGC TAGATAGGCC AAGGATTATT TTTTAACTT TTATTTTAGG TTCAGGGGTA 180
CATATACAGG TTTGTTACAT AGGTAACCTC ATGTCATGAG GGATTTTGTA TAGATTATT 240
GGTGACCCAG GACTAAACC TAGTACCCAT TAGTTGTTTT TNCTGCTCCT CTCCCTCCTC 300
TCACCCTCCA CCTCAGTTA GTTCCCAGTG TGTGTTGTTT CCCACATCT ATCCATGTGT 360
TCTTATTATT TAAGCTCCCA CTTATAAGTA AGAACATGCA GTGTTTGTTT TTCTGTTCCC 420
GATTAGGTAA TGCTGAGGGA TAATGGCTTC CAATTNCCAT CCATNGTTTC TGCAAAGGAN 480
CATGNNTCA TTNCTTTAAA TATGGGCTNG CATAGNNGTT CCATGGGNGG TGAATGTACC 540
ACATTTTCCT TTNANCCAGG TCTNATCAAT TGGNGGGCCA TTGNGGGTGA TTCCAAGGCT 600
TNGGTAATGG TGAANAGGGC ACAATAANCC AGTACCATGG GGCATGAAA 649

SEQ ID NO:1485

LENGTH:549

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01691

SEQUENCE DESCRIPTION:

GATCCTCTGA TGGGAGCTGA AAGGATGAGA GGTGGGCATC TAGATTTAGG GAGGCTGTTC 60
AGGCTTTGCA GGTCCCTTAC CTGAACACAT AGAAACCCTG GAGCTGTGAC TGTGTCCATG 120
TGTGTGTGTT TGTCTGTGTG TGTGCGGGG GATGGGCACC TGCATGAATG TGGTAGAGAA 180
AATGGCTCTG CTCAGAGGGA AGATACGCAT AGCAAGGCAG GGACCAGAGG AATCACAGGC 240
GCCTGGAGAG CAGCCGGGCA ACGNCTCCAG GGACCTGCCG GCTTCCCTCA GTCCTCCAGG 300
GGCCAGCAC TCTTCCTTA GGCCCTGTGA GCGTCCCTTG TCAGGATACA TTCTCTCATT 360

TTGCTGAAGC TGATTTGATT GGGTGTCTGT TTCTCGCAGC CAAAAGAGCT CTGAAATGAG 420
GAAAGTGCTT CTGTGCTAAC TCCCCGGGTC TCCTGAATTT CAGTCATTCA TGTACCCGCC 480
TCGAAATTTT TTGCAATATC TGTGTACCCA ATGTCCATTT AATTAATAAA GAAGTTTTCT 540
TAAATTAAA 549

SEQ ID NO:1486

LENGTH:543

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01692

SEQUENCE DESCRIPTION:

GATCGANGTT TACCTTGTGT CAGGAAAAAA TGTGGGGTAT GCCAAGTATG CCGATAGAAT 60
AAGTNCTAAT GATGCCACTN GCCACTCTAC ATNGAAAGAT TCTGAATGGG GTGAGACTTA 120
AAGTTATGCT GGCAGATTCG CCAAGAGAAG AATCTAACAA ACGGCAAAGA ACTTACTGAT 180
TCTTGAGAAC ACCCGACTAA ATAATGACAT ANTCTCAGC TGACTGACTG AAAATGTGAC 240
TGGACGCATT CCCTGTGGAC AGTTGACAGC TTTTTTTTTT TCCATATACC TGNTAGTCTG 300
TGTCCAGCAT TGTTTTGTCT GGGAAAGCAGG GTTTGCTGNC ATGTATTTTN NATTCATAC 360
ATTANTGCTA AACCGNTTAT AGTAGTTGTN CCTTAGNGCA NTATGTTGTT ACGTGTAGCA 420
GAANTAAAGT TTTCTTTGCT TTANCTAAAT CATGNCTTTA TTTNTGNGAA GGCCAGGACC 480
GGGAAATTTT ATTNGNCAGT CTTTGGNTTT TGCCTAATGN CATTGNCATG NNTTTGGGGT 540
NCN 543

SEQ ID NO:1487

LENGTH:533

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01693

SEQUENCE DESCRIPTION:

GATCCAGAGT TGCATACAGA CCAATTTCTG CATCAGTGTT ATCTCGACCA GAGGCTAGTA 60
GGACTGGAGA GGGCTCTACG GTATTTAATG GGGCCAGAA TGGTGTGTCT CAGCTAATCC 120
AAAGGGAGTT TCAGACCAGT GCAATCAGCA GAGACATTGA TACTGCTGCC AAATTTATTG 180
GTGCAGGTGC TGCAACAGTA GGAGTGGCTG GTTCTGGTGC TGGTATTGGA ACAGTCTTTG 240
GCAGCCTTAT CATTGGTTAT GCCAGAAACC CTTGCTGAA GCAGCAGCTG TTCTCATATG 300
CTATCCTGGG ATTTGCCCTG TCTGAAGCTA TGGGTCTCTN TTGTTTGATG GTTGCTTTCT 360
TGATTTTNTT TGCCATGTAA CAAATTACTG CTTGACATGT TGGCATNCAT ATTAATTACG 420
GATGNAATCC TGGGNANCTA CCTGTNCCTC CGAAAACCTG TAGGTANTTG GGGGTCANGG 480
GGAATTGNNC GGTAATTCCT AAAGCCATTT NATTAAGGN GGAAACCTTT AAA 533

SEQ ID NO:1488

LENGTH:531

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01694

SEQUENCE DESCRIPTION:

GATCCAAAAG ANCTGCTTTC TGAAGCAAGT TTCCAAGANG CTCTTCAGGA AAGCATTCCT 60

GACATTCAAG CGCACGAGTG GGTGCCGCTG TGGCTACTGC GGTATTCGGT CATTGTGAAA 120
 AGTAGAGGAA TTATCAAATC AAAAGGCTAC ATTTTACAAG CTAAAAGAAG GGGTTCTTAA 180
 CTGACTTAGG AGCATAACTT ACCTGTAATT TCCTTCAATA TGAGAGAAAA TTGAGATGTG 240
 TAAAANTCTA GTTACTGCCT GTAAATGGTG TCATTGAGGC AGATATTCTT TCGTCATATT 300
 TGACAGTATG TTGTCTGTCA AGTTTTAAAT ACTTATCTNG CCTCCATATC AATCCATTCT 360
 CATGAACCTC TGTATTGCTT TCCTTAAACT ATTGNTTTTC TAATTGANAT TGTCTATANG 420
 GANATNCTTG CAATATATTT NNNCNTTANT TTTTATGNCT AATATNAATN CAGGNNAATT 480
 TGTGTGTTGG TATTTTTGGG CNNGGGTTCC GGGGAATGNT TNTNCANTTT N 531

SEQ ID NO:1489

LENGTH:526

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01695

SEQUENCE DESCRIPTION:

GATCGGCGTG ACCANCCCTT GCCGGAGGTG GCCCATGTCA AGCACCTGTN TGCCAGCCAG 60
 AAGGCACTGA NAGGAGAAGG AGAAGGCCTC CTGGAGCAGC CTCTCCATGG ATGAGAAAGT 120
 CGAGTTGTAT CGCATTAAGT TCAAGGAGAG CTTTGCTGAG ATGAACAGGG GCTCGAACGA 180
 GTGGAAGACG GTTGTGGGCG GTGCCATGTT CTTTCATCGGT TTCACCGCGC TCGTTATCAT 240
 GTGGCAGAAG CACTATGTGT ACGGCCCCCT CCCGCAAAGC TTTGACAAAG AGTGGGTGGC 300
 CAAGCAGACC AAGAGGATGC TGGACATGAA GGTGAACCCC ATCCAGGGCT TAGCCTCCAA 360
 GTGGGACTAC GAAAAGAACG AGTGGAAGAA GTGAGAGATG CTTGGCCTNC GGCTTCAACT 420
 TGCGGCTGGC TCTTTACCGC CCATGCAAAC TCCATGCCTA TTTACTNGGA AACCTGTTAT 480
 NCCAAACAGT TGTNCNCTGC TAATAAATTG NCCAGTTTAC CTGAAA 526

SEQ ID NO:1490

LENGTH:525

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01696

SEQUENCE DESCRIPTION:

GATCAGCAGA GGNATCAAAC CAACACCTTC TTTGGCTCCC CTCCCGCAGC CACAGAGGCA 60
 ACCCACGTTG TCAGCACCAT CCCTGAGTCA TTACAATAGC ACCCTGCAGC TATGCTGGAA 120
 AACTGAGCGT GGGACCCTGC CAGACTGAAG AGCAGGTGAG CAAAATGCTG CTTTCTGCCT 180
 TGGTGGCAGG CAGAGAACTG TCTCGTACTA GAATTCAAGG AGAAAAGAAG AAGAAATAAA 240
 AGAAGCTGCT CCATTTTTCA TCATCTACCC ATCTATTTGG AAAGCACTGG AATTCAGATG 300
 CAAGAGAACA ATGTTTCTTC AGTGGCAAAT GTAGCCCTGC ATCCTCCAGT GTTACCTGGT 360
 GTAGATTTTT TTTTCTGTAC CTTTCTAAAC CTCTCTTCCC TCTGTGATGG TTTTGTGTTT 420
 AAACAGTCAT CTNCTTTTAA ATAATATCCA CCTNTCCTTT TTGCCATTTT ACTTATTGGN 480
 TCCATAANGT GAATTTTAAT TTAAGGTAT GCCACACATG CATGN 525

SEQ ID NO:1491

LENGTH:522

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01697

SEQUENCE DESCRIPTION:

GATCAGCTGT TTGTCATAGG GCAGTTGGAA ACGGCCTCCT AGGGAAAAGT TCATAGGGTC 60
TCTTCAGGTT CTTAGTGTCA CTTACCTAGA TTTACAGCCT CACTTGAATG TGTCACACT 120
CACAGTCTCT TTAATCTTCA GTTTTATCTT TAATCTCCTC TTTTATCTTG GACTGACATT 180
TAGCGTAGTA AGGTGAAAAG GTCATAGCTG AGATTCTCTG TTCGGGTGTT ACGCACACGT 240
ACTTAAATGA AAGCATGTGG CATGTTTCATC GTATAACACA ATATGAATAC AGGGCATGCA 300
TTTTGCAGCA GTGAGTCTCT TCAGAAAACC CTTTCTTACA GTTAGGGTTG AGTTACTTCC 360
TATCAAGCCA GTACGTGCTA ACAGGCTCAA TATTCCTGAA TGAAATATCA GNCTAGTNGN 420
CAAGCTCCTG GTCTTGAGAT GTCTTCTCGT TAAGGAGATG GGCCTTTTGG GGGTAAAGGN 480
TAAAATGGAT GAGGTCTGNC ATGNTTCACT ATTCTAGGAC TN 522

SEQ ID NO:1492

LENGTH:509

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01698

SEQUENCE DESCRIPTION:

GATCCCAACA ATATTCCTCA GGCCTCAATG ACAAGTGGTT TGGTTCAGCA GTTCCAACAC 60
ACAGTCCTTC CCTCAGTGAC TCCCTTGGNN CCCTCATCTG CACACTGATT GCCATATTGC 120
CCTCTATTTT CTGTCTTTGG TTAAACCCC AAGGGCCCAG AGGCTTTCTC CGATGTCTAA 180
CTCTTTGTGC CTTGAGCTCC TTTATGTTTG GGTGGCATGT TCATGAAAAA GCCATACTTC 240
TAGCAATTCT CCCAATGAGC CTTTGTCTG TGGGAAAAGC AGGAGACGCT TCGATTTTTC 300
TGATTCTGAC CACAACAGGA CATTATTCCC TCTTCTCTCT GCTCTTCACT GCACCAGAAC 360
TTCCCATTA AATCTTACTC ATGTTACTAT TCACCATATA TAGTATTTTC TCACTGAAGG 420
ACTTTATTCA GAAAAGGAAA AACCTCTTTT TTAATTGGGA TGGGAACCTT CTANCCTGCT 480
TTGGNCNGGG GGCCTCTGGG AAGNCTTN 509

SEQ ID NO:1493

LENGTH:497

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01699

SEQUENCE DESCRIPTION:

GATCCTGTCA AAATAGTCCG ATGCCATGAA CATATAGAAT CCTTACAGTA AATGGAGAAT 60
TACTCTTTTT TAGACAAAGA GAAGGGCCTT TTTATCCAAC CCTAAGATTA CTTCACAAAT 120
ATCCTTTTAT CCTGCCACAC CAGCAGGTTG ATAAAGGAGC CATCAAATTT GTACTCAGTG 180
GAGCAAATAT CATGTGTCCA GGCTTAACTT CTCCTGGAGC TAAGCTTTAC CCTGCTGCAG 240
TAGATACCAT TGTTGCTATC ATGGCAGAAG GAAAACAGCC TGCTCTATGT GTTGGAGTCA 300
TGAGATGTCT GCAGAGNCAT TGNGAAGTCA CCAAAGGATT GGCATTGAAA ATATCCATTA 360
TTTAAATGAT GGGCTGTGGN TATGAGGCAT ATAAATGNCC TCAGAGGGAT GCACTTGGGT 420
NAATATGGNT ATTGTGCTGT ATCTGTGTTG TGNCTGTGTG TGCANCTGAG GTATGCCTGT 480
GGTNTGCTGA TAAATCN 497

SEQ ID NO:1494

00669

LENGTH:472

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01700

SEQUENCE DESCRIPTION:

```
GATCAAAATA TCATGGATTG AACCTCATCA ATTGATAGCA GTGAGTGA CTGAGCTTCCA 60
AATCAAGAAA AGCCGGCACC AAGAACTTCC ATTCTAATCT AGAGCTGACC AGTTTGAGCT 120
GATTCTNTCT TTGAAGAGTC CTTCTTGATT GCAGTGCAGT ACTGGCATT CTGAATGGAT 180
GTANGNGGAG TATTTTAGTC TAAAGGCTTT TCAAATTACT TGAATTTTTT TAAAAATTGA 240
GGAGCTTTAT TTCTATTTAC CTTTCCATTT TTGTATATCA AATTTCCATN GTCATTAAAA 300
ACTGTATCTT GAAACTTTGT GAACTGACTT GCTGTATTG CACTTTGAGC TCTTGAAATA 360
ANTGTGATTT TNGTGTGATT ATCTGGTTTC CNGTTTTAAC CATTACCTGT CACCNTTNAT 420
CCTTAACCTT GAAAGTCCAG AAACCATNNN ATTATTAAGG TNGTCCAATA AA 472
```

SEQ ID NO:1495

LENGTH:496

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01701

SEQUENCE DESCRIPTION:

```
GATCTGTGTG GATGGCAAAC TCCCCAGGCC ATTCTGGGAC CTAAGTTTAA GAAGTGCCGT 60
CCTCGAAGTT NCTGACTCTA AGCTCCTGAG CGGGAGTNAG ACTTAGCCCT GAGCCTGCAC 120
TTCCTGTTCA GGTGCAGACA CTGAACAGGG TCTCAAACAC CTTCAGCATG TNTNTTGTGT 180
GCTCACGTGC CACACAGTGT CTCATGCACA CAACCCAGTG TACACACCAC CTACATGCAC 240
ACAGCGTCCT TNCACACTGT GTATGTGAAC AGCTTGGGCC CTGCAACACA ACCATCTACA 300
CACATCTACA ACCNNNAGGA CACACACATG GGTCCGTGCC ATGTCACCTC CNTAGGGGAN 360
GGNTTCTTTT CCAAGGTGTN GCCAGGCCAG GCAAGCCTTC CAGGCCATGA ATTCCTTACT 420
TAGGTACCTN GGGGTTTGGG GTGGGNGNCC CAGNCAAAAT TCTNNGGTTN CGTNCNCTTT 480
GGTTNNGNCC AGNTTN 496
```

SEQ ID NO:1496

LENGTH:492

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01702

SEQUENCE DESCRIPTION:

```
GATCCTGTAC AGCCAGTGTG GGGATGTGAT GAGGGCCCTG GGCCAGAACC CTACCAACGC 60
CGAGGTGCTC AAGGTCTCTG GGAACCCCAA GAGTGATGAG ATGAATGTNA AGGTGCTGGA 120
CTTTGAGCAC TTTCTGCCCA TGCTGCAGAC AGTGGCCAAG AACAAGGACC AGGGCACCTA 180
TGAGGATTAT GTCGAAGGAC TTCGGGTGTT TGACAAGGAA GGAAATGGCA CCGTCATGGG 240
TGCTGAAATC CGGCATGTTC TTGTCACACT GGGTGAGAAG ATGACAGAGG AAGAAGTAGA 300
GATGCTGGTG GCAGGGCATG AGGACAGCAA TGGTTTGTAT CAACTATGAA GAGCTCGTCC 360
GNATGGGTGC TGAATGGCTG ANGACCTTT CCCAGTNTTC CCCAGATTNC CGTTGCCTTT 420
CCNTNGTGTG AATTTTGGTN ATCTAAGCCT AAAAGTTTTC CCTAAGGCTT TCTTGTCTTC 480
AAGCAACTTT CN 492
```

SEQ ID NO:1497

LENGTH:490

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01703

SEQUENCE DESCRIPTION:

GATCCAAATA CACAGAATCA AGGGAAGGAG TTGCTTCTTC TAAGAGTGAT GCTTAATCTT 60
TTGGGTCATG GATGAATTGA AGATTTGATT AAAGTTACAA TAAAAAGAGN CCCCNTCAAA 120
GCACGTACAN NCTGTATCAC GAACGGTGCC TGGCCTACTT TTTCTTTTC TACCCACCCC 180
ACCCCAACCC CCCCTGTCTC AGTGAAAACC TGGTTGTTAC TAAAGTGAAA CTTTAATAAG 240
GATATTGCCT AGGGAAGATT AGTTGTTTTT CTTGTCATTC AAGTTCATTC TGGACCTCTT 300
CCTCTGAGCT GTTAATCAGT GTTGCTAAAC AGACAGGGAA AGACAAGGGA GAGAAAAATG 360
CTGATTCATT CTTCAGAACT TTAAACCNTT TTAACCNCTA ATTCTTCTCC TTGAGAAGCT 420
ATTCTTTGAT TGTGAAAGCT TTGTTGTTCA GGGNAATATG GGGTAATAAA AATAGCTAAC 480
CATTTTTTAA 490

SEQ ID NO:1498

LENGTH:477

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01704

SEQUENCE DESCRIPTION:

GATCAAACTT CCATATTTGC CTTGGGAATA ATGGACAAAG GGAAATACTC TTAATTCATG 60
AATAAAAACT TTGCAGAAAA TTAGACAGTG TTAAATTTTC GAAAACTTCC CTCTCTAGAC 120
AGTAGATACC ACCTACTGAT GGTTACATAT ACTAGGGAAA TTTTAAATTT AGGAAATGCT 180
GATAGCTCAT ATTATAAATT TCTAAATCCT AGGAAGAAAC GCTTGGAGTG CTTCTGAATA 240
TACAGAAGTT CCATTTAAGG GCAAGTTTCC CCGTAGATGT ATCAAAATAC TACCAACTGT 300
AAATTGAGGT TTAATTCCCA AATGTATTCT ACTTGTTCTA AAACAATCTG TCCNCAAATA 360
TANAACATA AAGTAATAAA TTGTTATTTT CCGCACCAAT GGGGNATCTC TAATGGTGGA 420
AAATGGTAAT CCTATGGAAA ATTAATTTTT TTAAANTAAA ANGNTNATTT TAATAAA 477

SEQ ID NO:1499

LENGTH:476

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01705

SEQUENCE DESCRIPTION:

GATCCCCGAG TCTTCACAAA TNCTCACTGA AGAAAATTCC TGGAACAATT CAGGGTCCTT 60
TCATAACCTC TACTCTGAGG TGTTANTAAA AAACCTTAGT AACTTAAAAA AAATGAGCTG 120
TACACAAATA CTGAACAATA ATGCTNCNTA TGTTAAGTAT GTANGAAAAA TATATACTTT 180
GACATANATA AGAAACGGTG AGTTGATAAT TGGATAGAAT GGTGGATAGA GTGATAGATA 240
TGTAGTAAAG CAAATATAAC AAAATGATAA TTGTACAATC TAAGTGGTTG GACTATAAAT 300
ATGCACTTCC CACAACNTTT TTATATGNTT AAACAGTTTT ATAATACCAT ATTANGGGAA 360
ACTGTTTGTG TCAAGGAAAT AGAGNTTGTG ATATGTTCTA GTNCAATGNA GGTGTAATCA 420

TGGTNAAATT AAAAGCTTTT ACTTCCTGGG CAATTAAAGG TAATCCTGGT AGGAAA 476

SEQ ID NO:1500

LENGTH:488

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01706

SEQUENCE DESCRIPTION:

GATCCTGACT GCTGTCATGG CGTGCCCTCT GGAGAAGGCN CTGGATGTGA TGGTGTCCAC 60
CTTCNANAAG TACTCGGGCA AAGAGGGTGA CAAGTTCAAG NTCAACAAGT CAGAACTAAA 120
GGAGCTGCTG ACCCGGGAGC TGCCAGCTT CTTGGGGAAA AGGACAGATG AAGCTGCTTT 180
CCAGAAGCTG ATGAGCAACT TGGACAGCAA CAGGGACAAC GAGGTGGACT TCCAAGAGTA 240
CTGTGTCTTC CTGTCCTGCA TCGCCATGNG GTNTAACGAA TTCTTTGAAG GCTTCCCAGA 300
TAAGCAGCCC AGGANGGAAA TGAAACTCC TCTGATGTGG TTTNGGGGGG TCTGCCAGCT 360
GGGGGCCCTT CTGNGTNGNC CANTGGGGNA CTTTTTTTTT TTTCCCACC NTGGGNTCCT 420
TTNANGANAA NGGGCTTNGA TTGCTTGAGC AAAGTTTCAA ATAAAAGNTT TNTNGGGAAG 480
NTTTTAAA 488

SEQ ID NO:1501

LENGTH:472

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01707

SEQUENCE DESCRIPTION:

GATCCAGAAG CTGATGGATG TGGGTCTGAT TGCAATTCGG TGATGACTTG TTCATACCCC 60
CTTCCCTTCG CCCTCATGTG GAAAGAGGAG CTGGGACCGC GGCGAGCAGC ACGGAGCGGA 120
AGGGAGAGCA GGGGAGAGAA GGCCTCATNT CTCTATATTT ATACATAACC CCGGGGAAGA 180
CACAGAGACT CGTACCTGCG CTGTTTGTGC CGCCGCTGCC TCTGGGCCCT CCCAGCACAC 240
GCATGGTCTC TTCACCGCTG CCCTCGAGTT CCATGTCTCT TTCCCCTGCC CCTAGTTGCT 300
GTCTCGGCTG CTCTCCATA GTTGGTTTTT TTTTNNATT GGGGCAGTGG GCATGTTAAT 360
GGGGGAGGGG AGGGGGTTCT TCCAGCCTNA GGTCCCAGTT GGTCTNACGT NGTTTAATTC 420
TTGGGTCCCC TTTTCCAAT TAAACAAGC CANTNGGGGC GTGGGTTNTA AA 472

SEQ ID NO:1502

LENGTH:469

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01708

SEQUENCE DESCRIPTION:

GATCGCAAAT TGCTNGAGCT GTTGTGGAAT AAATACTGGG TGAATACGTT GAGTTCTTCT 60
AGCTTGCTTA CTAATGCAGA CTATACCACT GGTCAGGTCT TTGATTGTGTC TGAAAAGTTA 120
GAGCAGTCAG AAGCCCAGCT GGGACGAGGG AGTTTCATGT TGGGTTTAGA AACGCATGAC 180
CGAAAATCAG AAGACAAACT TGCCAAAGCT ACAAGAGACA GCTGTAAAAC TACCATAGAA 240
GCTATCCATG GATTGATGTC TCAGGTAAAT TAAGGATAAA CTGTTTAAATC AAATTAACAT 300
CTCTTCCACA GTCTCTGAGA AGGGCTNTAC CTGAAAGACA GTATGNNGGA AAATATTCAA 360

GGTAACACTT TTAAANCCAG TTNCCNAAAA TCTGATTAGG ANGNTNANGG TTCTCTGAAG 420
TGGTCCTAAA TATTANTATC CCTGTAATAA ANGCTCTTTA AANTGGAAA 469

SEQ ID NO:1503

LENGTH:466

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01709

SEQUENCE DESCRIPTION:

GATCTGCAGT GGCTGTTTGA CCAGACCACA AAGTTCACAT CTCCTGAGCT TAGTGTCCTG 60
GGCTGTCCAC CTCCCAGCCA TACTTGACTG TCCCCAAACT CTCCCTGCAG CCACATGTTT 120
CCCATGACCT GTGGGCTCTG CAGATGGACC TCTCTCCGCT AGAGATGCCC TTCTCCCAA 180
TGGCTTCCCT CCTGGAAGGC CCAGCCTGAG TCCTCGTCTC CTTTCCAGTG CTTCTGCCAG 240
AAGCATCCCC ATGATGTTGT GACCGCACAG CACTTTGTGT CTTGCTTTGA GCACTTGCCA 300
CTCTGGCTGG TGCTGCTGCC ACTGATTGTG TACTGTCTTG CTGCCCTTTC TAGACTGTGA 360
GCTCCTCGTG GGCAGGGACC GCCTGTGTTC TCTGTATTTC CCACGGAGCC TAAGNACAGT 420
GCCTTGCACT TGATAAGGTG CTTAATAAAT GTCTGNTCAA CTGAAA 466

SEQ ID NO:1504

LENGTH:465

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01710

SEQUENCE DESCRIPTION:

GATCACTGTG TTCAGTGTG TTGGAATGGA TTCAGACTGG CTAATGGGGG AAAGGGGAAA 60
CCAGAAGGGC AAGGTGCCAA TTACCTACTT AGAACTGCTC AATTAAGTAG GTGGACTATG 120
GAAAGGTTGC CCATCATGAC TTTGTATTTA TATACAATTA ACTCTAAATA AAGCAGGTTA 180
AGTATCTTCC ATGTTAATGT GTTAAGAGAC TGAAAATACC AGCCATCAGA AACTGGCCTT 240
TCTGCCAATA AAGTTGCATG GTAAATATTT CATTACAGAA TTTATGTTAG AGCTTTCATG 300
CCAAGAATGT TTTCTTACAA AATTCTCTTT TTATTGAGGT TTCACTAATA AGCAGCTTCT 360
ACTTTTGAGC CTCAACTTAA AGCAGANCTG TTTTCTACTG GGATTTTTC TTAACAGCAA 420
GCCTTTTCCT TTTATGTAAA ATTAAATCTA TTGTGGAATT TGAAA 465

SEQ ID NO:1505

LENGTH:462

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01711

SEQUENCE DESCRIPTION:

GATCTTGTCT TAAAACATG ATAGTCCTTT CAGTATAATG TCTTAGATTA AAGACGTTGC 60
CTTTAATATC TGTTGGGAAG GAAATGTCCA GACTTTTCAA ATCTCTTATT ATATGTTTCC 120
TTTTNTTGTT TACATAGGGA ACAATGTTTA TAGTCGTGTG TACAGTGGGG GTCTACANCN 180
NGAAGTGAT ATTTTCAAAC AATTTTTTAA NGATTTAACA ATTTTGTAA ATCATTTTCA 240
GGCTTCTGCA GCTGTAGATT CTCCTGTGA ATCCCTTGCT TGCTCATGCA TAAGTGTATT 300
TGCAATACCA NATATACAGG TTTAGTATTT TTGCCTGTGA GTNGATTGTT TCACATGNGT 360

AACGTNTTGG GTGAGATGTT ANATGGTTGG NCGAGGTACT GTGGANGTGA ATGTGGGNAG 420
TAATTTTAAAN NCATATGNAA TTGGTCACCA GGGCCNAATT TN 462

SEQ ID NO:1506

LENGTH:459

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01713

SEQUENCE DESCRIPTION:

GATCCCAAGC AGGCTCACAA ATTTAAATGA GGGCTTTGTG TGCAGAAAGA GGAATAAGTA 60
CAGATTATTT TCCTACCACT AGATTTTGGG GGAGAGTCAC CATGGAATGT TGACAATTAC 120
TTAAAATATT TTAAGCTCCC TTGCTGAATT CCTGTCTGT CCCTGAGGAA TCAGATGGTC 180
ATACAGCCAT AGGCACCCAC CCGAAATTC CCTAGGAGTT GGAGTAATGC TAGAATTGAA 240
GACCTTCTGA GTAAAGGGCT TCTCTGCCTT CTCAGAGGCA GGAGAATTTG CACTGGTTGT 300
GTAAATGTA TAAAAAGCTA TATGTTACC AGTTTACTCA TTTCCAATGT GTAGATGAAT 360
AAAATGTAGT GTACAAATTA TTTGAAAATC CCAGAAGGGA AGGTACTTTT CAAANACAGT 420
ATTTTTTTTA ACAAATAAAC TTACGNTTTT TACAGCAA 459

SEQ ID NO:1507

LENGTH:454

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01714

SEQUENCE DESCRIPTION:

GATCTCCTGT CCATCAGCCA GGACAGTCAG CTCTCTCCTT TNAGGGCCAA TCCCAGCCC 60
TTTTNTNGAG CCAGGCCTCT CTCACCTCTC TACTCACTT AAAGCCCGCC TGACAGAAAC 120
CACGGCCACA TTTGGTTCTA AGAAACCTC TGTCATTGCG TCCACATTC TGATGAGCAA 180
CCGCTTCCCT ATTTATTNAT TTATTTGTTT GTTTGTTTTA TTCATTGGTC TAATTTATTC 240
AAAGGGGGCA AGAAGTAGCA GTGTCTGTAA AAGAGCCTAG TTTTAAATAG CTATGGAATC 300
AATTCAATTT GGACTGGTGT GCTCTCTTAA AATCAAGTCC TTTANTTAAC ACTGAAAATA 360
TATAAGCTCA GATTATTTTA ANTGGGNATA TTTATAANTG NGCAAATATC ATACTGTTCA 420
NTGGGTTCTG GAATAAACTT CACTGGAGGG NAAA 454

SEQ ID NO:1508

LENGTH:453

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01715

SEQUENCE DESCRIPTION:

GATCGAGCAG TGTGACTACC CCCCCTCCC CGGGGAGCAC TACTCCGAGA AGTTACGAGA 60
ACTGGTCAGC ATGTGCATCT GCCCTGACCC CCACCAGAGA CCTGACATCG GATACGTGCA 120
CCAGGTGGCC AAGCAGATGC ACATNTGGAT GTCCAGCACC TGAGCGTGGA TGCACCGTGC 180
CTTATCAAAG CCAGCACCCAC TTTGCCTTAC TTGAGTCGTC TTCTCTTCGA GTGGCCACCT 240
GGTAGCCTAG AACAGCTAAG ACCACAGGGT TCAGCAGGTT CCCCCAAAGG CTGCCCAGNC 300
TTACAGCAGA TGCTGAAGGA GAGCAGCTGA GGGAGNGGN GCTGGCCACA TGCTACTGNT 360

GGGTCAGNTT CCAAAGTCCT TTNNTTANCA CTGTTGTGGA CAATNTNANN TNGGGTCAAN 420
TNAAGGGCAG GTNGGTTNAA GNGGNGCCNN GGN 453

SEQ ID NO:1509

LENGTH:450

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01718

SEQUENCE DESCRIPTION:

GATCCTGGGG AAGGTGGGGA ACATGCTTGC AGTATCTNTC CCTGTNTGTN TGCTCACATA 60
AGCATTCCGT CCATCTGAGC TCATCGTGCT ACTGGTATGT GTATGTNCAG TTACACAGTT 120
TTNTGTATCA TAGATTCTAG TGTGTTTATA CAAGGNGACA TCTGTGGTTT CCCCACCGT 180
TCCAAAAGGC TATTTCAAAG GAACCAGCCA ACGTATGAGA AATGANTGTA ACACTGTGGA 240
CATTGACTTC CCGCATAAGG CAGGGTGACC CCCTGAACTC CAGATGTNTG CACAGTATCT 300
NATGTGTTGT TTTCCGTTGT GACGAATGTG NATTGGAACA TTTGGGGGAG CACCCAGAGG 360
GATTTNTNAG TGGGAAGCAT TACACTTTGC TAAATCANGT ATTTNNTTCC TGNTTAAACC 420
AACCTANTTA ANTNTTANC CCTTGGCAAA 450

SEQ ID NO:1510

LENGTH:449

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01719

SEQUENCE DESCRIPTION:

GATCCATGGA TGTAAGTGGG AGTGGAAAAT GGCACAATAT CAAGTGTGAG ANAGGNGATA 60
NACTTCGACT CTNCTGCCTT CAACTGAGAN CAGTTGACCG CAAGCTGAAA CTGGTGTGTG 120
GNAGTCACAG CTTTCATCAAG GTCATCAAGG CCAAGAAAAA CAAGGAAGGA CCAATGAATG 180
TTAATTGAAA TATGAAAGCT GAAATGCAAC AAACAACCTC CGCTTAAAAC AATTAAGTTG 240
TTAATAACTG TGATTTTGTG AATTTTCAGTA ATTCATTAA ATGATGTTTC AGTAGATATA 300
TTCTAGCATA TTANGAGCTT TTATAACTGA GTTATAGATT AGTTTGCTTT CTGGAATAAA 360
ATTTTCTTCT TATACTCTTC CTTTTTTTTA GATATNACAT TTTGCTTTTA TGNCATTAC 420
GGGGGCAAAA ANTAAATAT CTTTTTTT 449

SEQ ID NO:1511

LENGTH:464

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01720

SEQUENCE DESCRIPTION:

GATCAGAATC ATGGTCTCCC GCAGTGAAGT GGACATGTTG AAAATNAGGT CTGAATTCAA 60
GAGAAAGTAC GGCAAGTCCC TGTACTATTA TATCCAGCAA GACACTAAGG GCGACTACCA 120
GAAAGCGCTG CTGTACCTGT GTGGTGGAGA TGACTGAAGC CCGACACGGC CTGAGCGTCC 180
AGAAATGGTG CTCACCATGC TTCCAGCTAA CAGGTCTAGA AAACCAGCTT GCGAATAACA 240
GTCCCCGTGG CCATCCCTGT NAGGGTGACG TTAGCATTAC CCCCACCTC ATTTTAGTTG 300
CCTAAGCATT NCCTGGCCTT CCTGTCTAGT CTCTCCTGTA AGCCAAAGAA ATGANCATTN 360

CAAGGGAGTT TGGAAGTNAA GTCTATGANT GTGAAACAAC TTTTNNCCTC CTGTNGTNCT 420
GTGTTAATAA ANCAGGTGNA TTAAACTGNN TTTNGTACTT TAAA 464

SEQ ID NO:1512

LENGTH:445

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01721

SEQUENCE DESCRIPTION:

GATCTTGCCA TGGAAGATAC TAGCCCAGCC TAGCAGAAAA GTGCAATATG TATAGCATAC 60
TTTGACATTT TAAACATGAT AGTCCATAAC CATTTTGAAA TGCTGGGCAA ACTACATGAA 120
GTTATTTATA ATTAATTCAC AGCTAATCAG GCATTTTGAA AGCTTAATTG GATTCAAAAA 180
CCATAATGTT GGAATTTGGT AAAATTTTAA TGTTGATTTT TACTGTGAAA AGGTTTTTAT 240
AAGATATACA CACCCTAGTT TAATGTTGTG TCTTGGTGTG GATTACAGA TTTACTACAG 300
GTATTCTGAA CCAGGAACAC ANTCAAGTTT TCAGGCCAGT TTGAATACTG GCTGGCCTTA 360
AATTCTAATT ATNNGGAGTA GGGACATCAT ACCTAAATNT TTATGTCAGT GGGGNCCTGA 420
CTTGTCTGTG GGANCTTAGC AAATN 445

SEQ ID NO:1513

LENGTH:435

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01722

SEQUENCE DESCRIPTION:

GATCAATCGG ATTGAGAAGA ACATCCTGAG CTCAGCGGAC TACGTGGAAC GTGGGCAGGA 60
GCACGTCAAG ACGGCCCTGG AGAACCAGAA GAAGGCGAGG AAGAAGAAAG TCTTGATTGC 120
CATCTGTGTG TCCATCACCG TCGTCCTCCT AGCAGTCATC ATTGGCGTCA CAGTG GTTGG 180
ATAATGTTCG ACATTGTTGG CACTAGGAGC ACCAGGAACC CAGGGCCTGG CCTTCTCTCC 240
CAGCAGCCTG GGGGCAGGGC AGAGCCTCCA GTCGGACCCC TTCCTCACAC TGGCCCCTAT 300
GCAGANGGTN AGACAGTTCT TCTGGGGTTG GNAGCTGCTC ATTCATGATG GCCTNCTCCT 360
TNAGGCCTCA ATGCCTGGGG GGANGGCTGC ACTGTCCTAT TTGGNCGGGA CANACGGTTT 420
TNTAAAAATT TTAAA 435

SEQ ID NO:1514

LENGTH:434

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01724

SEQUENCE DESCRIPTION:

GATCTAACCT AGACTAAAAT TGGGAACCTA TTTGCAATTT TTGACCCNGN CCACTAACTA 60
GTGATTCTNC TCCAAAATTG AGAAAGACAG CACCCATTGA AGCAGATATG TGTGTGAAAG 120
TATATTTTTC AATTCCAGAT TTTTAATTTT AAGGCTCCAG GAAAGAAAGG AGAGTAGAAC 180
ATTTTTCTCT ATTTTATCAA ATCCTCTCTT GCCCTCCCTC AATTCCCCTG TAACATTCCT 240
GAAGCTGTTC CCACTCCAG ATGGTTTTAT CAATAGCCTA GAGGTAAAGA ACTGTCTTTT 300
TCTCTGATTC TTAAATAAAT TATCTTTATA GGAATATGCA CAAGTTTTTT TTACACTCAG 360

TGTTAAAAGT ATTTATTAAT NGGGAAGTCA ACTTAATGTT TTGAAATAAA NTATATGNCT 420
CTGGTTAATG CAAA 434

SEQ ID NO:1515
LENGTH:423
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01726

SEQUENCE DESCRIPTION:

GATCCAGTGA TTCANTCACT TAAATNAAGT CTTTTGGTCA GAAATNACCT TTTTGACACA 60
AGCCTACTGA ATGCTGTGTA TATATTTATA TATAAATATA TCTATTTGAG TGAAACCTTG 120
TGAACCTCTTT AATTAGAGTT TNCTTGTATA GTGGCAGAGA TGTCTATTTT TGCATTCAAA 180
AGTGTAATGA TGTACTTATT CATGCTAAAC TTTTATAAA AGTTTAGTTG TAAACTTAAC 240
CCTTTTATAC AAAATAAATC ANGTGTGTTT ATTGAATGGT GATTGCCTGC TTTATTTTCA 300
AGGACCAGTG CTTTGATTTT GATTATGCTA TGTNATAACT GACCCNAAAT AAATNCAAGT 360
NCAAAATTTAT GTNGNCTGTA TAAGGTTTGT AATAANCCAT GNCTGAGGNC AAAAAAGGGN 420
AAA 423

SEQ ID NO:1516
LENGTH:419
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01727

SEQUENCE DESCRIPTION:

GATCTGTAAT CTCCACTGCT TGGATGTCTG CCCTCTACCC CAGAGGAATT TACAGAAACT 60
TGCCCTGTGC CTGTGTCCCC CATGCTAGGG GCGGAGGGGT CTTTTCCTTC TTCTTTCCTA 120
CCTACCCCTT TTCTCTTGGC CAGGGGCCTC GTATCCTACC TTTCTTGTGC CCCTGGGCTG 180
GCTGCACAGA GGATTGCCCC TTCTCTTTTC AGAGCTGGCC CTCGATGCCA AATTAGCATT 240
TAGTATTTTG CACAAAGTCT AAGGGACCAT GGCTGCCTGC CTTGGGGAGG AACCATAGCT 300
CCNTCTGGGC CGCTTCTGGC CTCTTGGAGC CATGGGCCAA AGGCAAGGGG ATGGGCAGAG 360
GTCTGTGTTT GGTCTGGCCC AGTTCCNCAT CATTAACTC AGCCTGACTG CTGCCTAAA 419

SEQ ID NO:1517
LENGTH:419
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01728

SEQUENCE DESCRIPTION:

GATCCTCAGT AGANCAGTCC AGAAGCCTGA NAGACAGTGG CCCCTTGATA ATCTGGGTCT 60
CACGGGNCCA GCTAGGGGTC CAGGTTTCAN TCAGTAAATA AGAGTGGTCC ACGTCCTAAA 120
GACACCTCTC CTNNACAAAG ACTTGTGATG CTCTGGGGNT TCTNTGGCCA AGCCCCACCC 180
TTTCCTGGTC ATGGTACCCG TACAGCGTTG ATGGCCACAG CTCGAAGGGG GGCTTTCGTG 240
TCCCCCTGTG CGGTCAAGTGT TTTCAGTACC ACCTCTCTCC CGTGCCCACT TGGCTATTTA 300
CTTATTTATT TATTGTGTGC CAGTNATGGT GGGTGGGGGC TGGGCCTTCC CCGCCACCTN 360
CANCCCTGTT GTGACCTGTC CTTCCGTACT TAATAAAGTG CGCGTGNGGA GTTGTTAAA 419

SEQ ID NO:1518

LENGTH:418

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01729

SEQUENCE DESCRIPTION:

```
GATCTNAGCC CTCCGGTTCC TGGGCAGAGA GAAAGGCTAC AGGTTCATTT NCCTGACGAC 60
AGCAGTCACA AACAGCGCTC GCNTTATGGA GGCCATNAGT GAGGTGAAAG CCTGATGTTT 120
TTCCCGGCCA NTNTTGACAT CTCCTTGAA CACATTCCTC AGTGAGATGC AGGCATCTGG 180
CACCCAGCTG CTATAACCAA GTGTCCACCA ACTACCTGCT AAGAGCCGGG AGCATGGAAC 240
GTGTTGGGAT TTAGAGAACA TTATCTGAGA AAAGAGTTCA CTCCTGCTC CCAGGATATT 300
TCTCTTTTCT GTTTATGAAG TACAACCCAT GCTGCTAAGA TCGAGCAGG AAGAGGCATC 360
CTTGCTAAA TCCTGTTTGA ATGTCATTGT AAATAAAGCC TCTGCTCTCA GATGTAAA 418
```

SEQ ID NO:1519

LENGTH:404

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01730

SEQUENCE DESCRIPTION:

```
GATCCAATTT ACAGAAATCA GAGTTAGCTA CAGCTAGGAC TCGTTTGGTT GGGGTTTTTTT 60
AGTTTGTCTT TCTAAAGTCA TGTGGACCTT AATTTAATTA CAAAAGTCTA CCCTGGTGGT 120
CATAAAATAG GCAGGCCTAT GAAGAAAGGC CTTTACTCT TCCATCTCGT CCCAGCCCCG 180
AGTTGACCCA CGTTGCTGCT CCTCACACCA TGGTGATGCA GGTCTCGTAG TGTGGGCACA 240
GGCCTGGCTA CCTCATCTTT TTAGTGCCTC TCTCCTCTTC CACAGGATGG GGTCCACAG 300
CTGCAGCAGC TGGCCCGGTA GTTGAGCATG TGTGGTTATC CTGTAGAGCT TTTCCAAGA 360
AGGGTGTTTG AACTTAGAGT CTTAATAAAA TCTTACCAA TAAA 404
```

SEQ ID NO:1520

LENGTH:402

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01731

SEQUENCE DESCRIPTION:

```
GATCTACAGA TACGTGATAT TNTGGTATAA CTAGAATCTT GATTTCTTTC ATAAAGTTCT 60
GCCATGTTCT ATTTCTTTCC TTAATGTTTT TTTCTTCCCT ACTGTTTTAT CCTCCCTTGG 120
CTTTGGAAGG ATATTNCTGC ATATCGAGCT AAAGGAAAGC CTGATGCAGC AAAAAAGGGA 180
GTTGTCAAGG CTGAAAAAAG CAAGAAAAAG AAGGAAGAGG AGGAAGATGA GGAAGATGAA 240
GAGGATGAGG AGGAGGAGGA AGATGAAGAA GATGAAGATG AAGAAGAAGA TGATGATGAT 300
GAATAAGTTG GTTCTAGCGC AGTTCTTTTT NNCTTGTCTA TAAAGCATTT AACCCCTG 360
TACACAACCT ACTCCTTTTA NNGAAAAAAA TTGAAATNTA AA 402
```

SEQ ID NO:1521

LENGTH:407

00678

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01732

SEQUENCE DESCRIPTION:

```
GATCTCAGCT GAACAAATTA GATGTTTCAG TTGCTCTTGG GTCAACTGGC TTACAGATTT 60
ACATGTGCAC ACACACACAA ATTTCTTATC ACATTTTCGC CTTCTTCACT TGACCTAACT 120
GATTATGCGA AATACCCAAG ATTCATGCTA CTGTACCACA GATTGTTTTT CACAGCAATA 180
AATCTTCAGT TCTTTGTTTA TGATTCCACT TAACAAAAGG CCTGCAGAAG TGATTTATTA 240
TTTGGGTATT TGGAGATAAT ACATTTGATG GTTTTTTGGG AAACCTTTTT CACTCCATAC 300
TCAGATATGC TTCATTGTCA AATGCATATT TAGGNTAGGT TAATNGAATT GTAATGTTTA 360
ACCTGCTGCT TNTTTTTTAA ATAAAAATTT GACTGAAAAT GGTAAA 407
```

SEQ ID NO:1522

LENGTH:397

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01733

SEQUENCE DESCRIPTION:

```
GATCTAGTAG CCACGCTAAA AAACAAGTAA AATTAATTTT AATATATTTA ACTCAATACA 60
TTGGAGATAT TATTTTCAGAA CGATATTTTT CATTCTTATG AAATAAGTC TGTCTGGTTT 120
GCATATCTCA GTTGAGACAC TAAAGTTTTA CTGATAATAC TTAATCCATN NATTAGATTT 180
CATAAAATCT AAATTTGCAA AGTAAATTTA CATACCCATG TNGGTCTAAA TGTGCTTAAA 240
AGTTTTCCAA TAACTGAAAT GAGTATCAGT TTAAATTTA AAAATTTGTT ACTTGTTTAC 300
TCCATATTTT AGGTATTAGT GGCTACCATA TTGGTCAGAG CAGATTCATA GGGATGATTT 360
CCCAGGTTTG AAGTGTGTGT ATATTGCTGG TATTATN 397
```

SEQ ID NO:1523

LENGTH:395

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01734

SEQUENCE DESCRIPTION:

```
GATCTGTACG AAATGTGAAA TNTTTAGGGA CATCTCCATG CTGTCACTTG TNATTTGCCC 60
TCTNATGTAT TTNGGTCATA TTGCCAACTG GAAAGTCAAA ATTCCTAAC AACTTTAAGT 120
AAGTCCTTTN AAGACTNAGT GCTGTTTTNA ATCCAGTTTA GAAAGTAACT TAATTTTAAT 180
ACCGCTACTA AAAATNCGAA AATTTCTCCT TTAATCACAT TCAATATGGT TAAANGAACA 240
ACACTAATTG ACATTGCGTG GGCTTTTCCT CCCTTTGTTT AAANANGTCA TTTTGTTGAG 300
CAAGNGGTTG TATAGTATTA TCTACTNNCT TGAGGCTGTT AAATTTNCNA TTCCAGNGGT 360
TTTGTAATG TATCCCGGGG CCNTGNTGCA TTGGN 395
```

SEQ ID NO:1524

LENGTH:391

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01735

00679

SEQUENCE DESCRIPTION:

GATCTCAATG ACCTGGCGAA GACTGGAAAA TACAACTCCC ATCACCAGCA GAGTTGCTAG 60
 GCTGCTGCTG TATGGGTACA GAGAAGGGTT TGACAAAATT GACCTGACTG TGGAAGAAGT 120
 TCCAGCAGTT TACACAGGAC TGTTTATAA ACTCTATCAT AAGGAACTGC CAGAGAATTA 180
 TAAAACTATG AAAGGAATTG ATTAAATTCA CATTATATG TTTAGAAACA TGTAAGACTAA 240
 CGAATGACAT AAGAAATAGT GGACATTTTG GATTGATTAA ACATCTGACT GTGATTTTCT 300
 AATGTATATG ATTCCATGA AGAAATTTTG TTTCTAAACA TGCACATTTT AAAAGCCTCT 360
 TTTCGAATAA AGCAAATGCG TGAAAANGAA A 391

SEQ ID NO:1525

LENGTH:388

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01736

SEQUENCE DESCRIPTION:

GATCCGGCGC CACAAGACCA CCATCTTCAC GGACGCCAAG GAGTCCAGCA CGGTGTTCTGA 60
 ACTGAAGCGC ATCGTCGAGG GCATCCTCAA GCGGCCTCCT GACGAGCAGC GGCTGTACAA 120
 GGATGACCAA CTCTTGGATG ATGGCAAGAC ACTGGGCGAG TNTGGCTTCA CCAGTCAAAC 180
 AGCACGGCCA CAGGCCCAGC CACAGTGGGG CTGGCCTTCC GGGCAGATGA CACCTTTGAG 240
 GCCCTGTGCA TCGAGCCGTT TTCCAGCCCG CCAGAGCTGC CCGATGTGAT GAAGCNCCAG 300
 GACTCGGGAA GCAGTGCCAA TGAACAAGCC GTGCAGTGAG ACCCCCAAGA GGCCCATTTCT 360
 CCCCAATAAA AGAGATTTGG GAGTCAAA 388

SEQ ID NO:1526

LENGTH:388

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01737

SEQUENCE DESCRIPTION:

GATCTTATTT CTTCTACTCA ATTGTATATT TATACCCATT AATCAACTTC TGTTCTTGCT 60
 CTCTCCGTGC TACCCTTCTG GCCTTTGGTA ATCGCCAATC AATCTACTCT CTATCTTCAT 120
 GAGACCAGCG TATTTTAGCT CCCACATATG AATGAAAACA TATAATATTT GTCTTTCTGT 180
 GCTTGACTTA TTTTACTTAA CATAATGACC TCCAATTCCA TCCATCTTGT GGCAGTGACA 240
 GTATTTTATT CATTTTGTG TGAATTATAT TTCGTTGTGA ATATACATTA CATTTTCTTT 300
 ATCCATTCAT CACTGATGTG CACTTAGGTT GATTCCATAT TTGGGCTATT GTGAATAGTG 360
 TGTTAATAAA CATGAGAGTG CAGTTAAA 388

SEQ ID NO:1527

LENGTH:385

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01738

SEQUENCE DESCRIPTION:

GATCTTCCTG GTCAGCGCTC TCTCTAGCAT ACTCTTCCTC TATTTGGCTC ACAAACAGGC 60
 ACCAGAGAAG CAAATGGCAC CTTGAAGTTA AGCCTACTAC AGACTGTTAG AGGTGATACT 120

ATGACCATGA GTAGCATCAG CCAGAACATG AGAGGGAGAA CTAAGTCAAG ACAATACTCA 180
GCAGAGAGCA TCCCGTGTGG ATATGAGGCT GGTGTAGAGG CGGAGAGGAG CCAAGAAACT 240
AAAGGTGAAA AATACACTGG AACTCTGGGG CAAGAGATGT CTATGGTAGC TGAGCCAAAC 300
ACGTAGGATT TCCGTTTTAA GGTTCACATG GAAAAGGTTA TAGCTTTGCC TTGAGATTGG 360
CCTCATTAAT ATCAGNGACT GTAAA 385

SEQ ID NO:1528

LENGTH:377

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01739

SEQUENCE DESCRIPTION:

GATCCGTAAT CAGAACGTCC AGGAGAGACG CATGGCCCGA AGTCAAAGTG CTGGAATTTT 60
CCAAAACAGC CTGTTCTCTC CTCTCTCCTC CCCAGAGCAC CCCCTGCCAT CAGGGGGGGT 120
GAAATCCCTC TCCCCCAGGA GCCCTGCTGC TTTGCTTGGT GGTAGGGCAG GAGAGCAAAC 180
AAACAGTCAT GGTCTAAAAC CCACATAGCA CTTGCTCTT AGTTACATGT AAAATTTTAG 240
ATTTCTAAAA CAGGTGGGCA ATCATTTTGA ATACTGTTCT GTGACCCTGA CTGCTAGTTC 300
TGAGGACACT GGTGGCTGTG CTATNGTGTG GCCATGCTCC NTTGTCCCCG TNCCTGTTGG 360
CTGCTTCTGT TTAGGTN 377

SEQ ID NO:1529

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01740

SEQUENCE DESCRIPTION:

GATCCAAGGC CTGTGGTAAA CGGGAGANCT TGTNTTTTTC AAGTGGAATA AAACCCAAGA 60
GTTTGTNCAG ACATCCTGTC TTCCAGAGA AGGTGGACAC TCTTGGNCTC ATTGTAAAGT 120
GCCTGCTGNA TCAATAAAGC TCTTGGCTTA TTAGTCTATA AAACAAA 167

SEQ ID NO:1530

LENGTH:372

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01741

SEQUENCE DESCRIPTION:

GATCCACACG TTCCGGGACT ACCTGCACTA CCACATCAAG TGCTCTAAGG CCTATATTCA 60
CACACGTATG CGGGCGAAAA CGTCTGANTT CCTCAAGGTG CTGAACCGCG CACGACCAGA 120
TGCCGAGAAA AAAGAAATGA AAACAATCAC GGGGAAGACG TTTTCATCCC GCTAATCTTG 180
GGAATAAGAG GAGGAAGCGG CTGGCAACTG AAGGCTGGAA CACTTGCTAC TGGATAATCG 240
TAGCTTTTAA TGTTGCGCCT CTTCAAGTTC TTAAGGGATT CTCCGTTTTG GTTCCATTTT 300
GTACACGTTT GGAAAATAAT CTGCAGAAAC GAGCTGTGCT TGCAAAGACT TTCATAGTTC 360
CCAAGANTTA AA 372

SEQ ID NO:1531

LENGTH:372

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01742

SEQUENCE DESCRIPTION:

GATCCACTGT TGGGGCCTCG ACGAGTTCCT GTCCTGGGAA AGGAGTACAC CGAGAAGACC 60
CCCATTCTG AGCATGCTGT TTTCAATGTG GACCTCATGA GCAAGAAAAT TCATCTGACT 120
GAGAATGGGA TAAGGGTGGG TATTGGCGAT ACAATAATCT ATCTGGTTCA TAAACTCAT 180
GCACATTGGA GATTTATCCT GGTTCCTTAG GAATACTACT ACTCTGATTG TGTCTACTGA 240
TTGGCTATCA GAACCTTAGG CTGGACCTAA ATAGATTGAT TTCATTTCTA ACCATCCAAT 300
TCTGCATGTA TTCATAATTC TATCAAGTCA TCTTTGATTC CTGGACCTAA TAAATTTTTT 360
TTCCCTTTCA AA 372

SEQ ID NO:1532

LENGTH:368

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01745

SEQUENCE DESCRIPTION:

GATCCCAGTC ACAATTATCA CCGGGTATTT AGGTGCTGGG AAGACAACAC TTCTGAACTA 60
TATTTTGACA GAGCAACATA GTAAAAGAGT AGCGGTCATT TTAATGAAT CTGGGGAAGG 120
AAGTCCGCTG GAGAAATCCT TAGCTGTCAG CCAAGGTGGA GAGCTCTATG AAGAGTGGCT 180
GGAACCTAGA AACGGTTGCC TCTNCTGTTC AGTGAAGTGA GGAATGTGTT TACTGTGTAC 240
ATGGTTTACT AGAAATGTTT ATTGATTATA TTTCCAGCTT TAATTTTCTT GAGTAATTTA 300
ACTGAATTTA CACAGTTTGC TTCATTGTAT TTTCAAACAA ATAGAAAATA AACTTATTAG 360
GAAGCAAA 368

SEQ ID NO:1533

LENGTH:364

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01746

SEQUENCE DESCRIPTION:

GATCGTCCCC GTATGATGAT TGTNAGAAGA CAGGACTAAG TAGCAGAGAA TAGCTAAGAG 60
ATAAATTGGG CTGGGGAAAC TTGTCAGAAA GCACTGAACA ATTAAGAAAT TTTCCAAGAA 120
AATGTGCAGT ATTCTCTGCT ACTTCTGAAT CTGTTTTGTC TTCCTAATCT ATCACAATTG 180
CCACCCATCG GGTTTTGGGT GTGTGTTTTT ATAGCGTGGT TACTTTCTAT AATGCTGTAC 240
CCAGATTCTA AGAACCTGGA GAAGGATTAG CAGTTCCTAG TAAGTTTACT GTGTATAGGA 300
ACGGTTTGTA TTTCATTACA GCTATTCATC TTTTCTACAT TAAAAATATT TTTCTCTAAA 360
GAAA 364

SEQ ID NO:1534

LENGTH:362

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01747

SEQUENCE DESCRIPTION:

GATCTGTGCC ATAAAATTTT AGTGTAAATA GACTTCTTCA ATACATCTTC CAATAAGGGG 60
TGCTTCTTTG TGACAGTATT TTTATTTCTG ACATTCATTT TATTTGGGTA CATAGTGTGG 120
TTGTTGATAC CTTGCAATAG TATTGCTTCT GAAAGTAATA AAAAATTTTA GGAGAATTTG 180
AGAAGTTTAC AGAATTACTT ATTCATTGTT TTCTTAGTAA GTCAGTTTAA TGTTTATTTT 240
TCTCATTATT TCATCACTGC AATAAAGAAT AAGGGTGTTT GAGCTCACCT CCATGCAAAG 300
ACTTCAGTTT TAAAACATTA TTTGCCTAAA ATTAGCATTG TGATGCTTTC TGAAAGAAAT 360
AN 362

SEQ ID NO:1535

LENGTH:361

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01748

SEQUENCE DESCRIPTION:

GATCCACCTC TCCTGTGCTA AGATTAAGAN GACCAACGTC CCCGANTTCT TTNATTGCCA 60
GAAATGCAAG GAACTGAGGC CAGAGGCCNN GCGGTTAGGG GGGCCTCCCA AATCTGGAGA 120
GCCCTGATGG CACCAACTTT AGCCTGGAAC TTCCAAATNA CAACATGATT TGGGAAGTGA 180
GCCTCAGGGT CCTCAGCCTA TCCCCTGGAG CTTGGATACT GTCTGCACTT CAAGGCAGGA 240
ATTCTCAAGG GAGACTTGTT TGAAAATNAG TGTCTCACTT TCCCACCCTA TCCTTCCTCC 300
CCACTCTGTG GACTTGAAAT TGAATCCATT ACGGTTGGGG ATGGGAGGCT GTCTGTGTCC 360
N 361

SEQ ID NO:1536

LENGTH:360

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01749

SEQUENCE DESCRIPTION:

GATCGATTCT CTCTATGAAG GAATCGACTT CTATACNTCC ATTACCNGTG CCCGATTNNA 60
AGAACTGAAT GCTGACCTGT TCCGTGGCAC CCTGGACCCA GTAGAGAAAG CCCTTCGAGA 120
TGCCAAACTA GACAAGTCAC AGATTAATGA TATTNTCCTG GTTGGTGGTT CTA CTCTAT 180
CCCCAAGATT CAGANGCTTC TCCANGACTT CTTCAATGGA AAAGAACTGA ATANGAGCAT 240
CAACCCTGAT GAAGCTGTTG CTTATGTTGC AGCTGTCCAG GCAGCCATCT TNNNTGGAGA 300
CAAGTNTNNG AATGTTCAAG ATTNNGCTGGC TCTTAGGNTG TCACTACTCT TTTCCCTTAN 360

SEQ ID NO:1537

LENGTH:358

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01750

SEQUENCE DESCRIPTION:

GATCCCAGTG AATCCTGGGT CCAGGAGTAC GTGTATGACC TGGAAGTGAN CTGAGCTGCT 60
CAGAGACAGG AAGTCTTCAG GGGAGGTCAC CTGAGCCCGG ATGCTTCTCC ATGAGACACA 120

TCTCCTCCAT ACTCAGGACT CCTCTCCGCA GTTCCTGTCC CTTCTCTTAA TTTAATCTTT 180
 TTTATGTGCC GTGTTATTGT ATTAGGTGTC ATTTCCATTA TTTATATTAG TTTAGCCAAA 240
 GGATAAGTGT CCCCTATGGG GATGGTCCAC TGTCAGTGT TCTCTGCTGT TGCAAATACA 300
 TGGATAACAC ATTTGATTCT GTGTGTTTTT ATAATAAAC TTAAAATAA AATGCAAA 358

SEQ ID NO:1538
 LENGTH:354
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01751

SEQUENCE DESCRIPTION:

GATCCCTCCT CTAGGGGCCCT GGGGACTTTN ACTGATGCTC TTCCTGATTC TAGAGCAAAG 60
 GTGTGGGAAG GGGAAATGGA GGAATGCCCT CCTGTCTGTN TCGTTCTCTG TGCCACAGCT 120
 ACAGATGCAG AAGGTTTCTC TGGATAGCAC ACCTCTGANT GTAAATCATG ATAAAATGGA 180
 TATTTGAAA CTTACTCCTA AGCTGTGATT TAGGGTGTAT TTCTACTTCT GGACTGCCTC 240
 AATATCAAGG GCTGAGACTT TTGAATTTTG AATATTCGTT GGGTTTCATG TTAAGANGCC 300
 TGTGGTCTAG GAGTGCTATT CAGTGTTCCT TTTCTGATA AACACTTTGA ATAN 354

SEQ ID NO:1539
 LENGTH:352
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01752

SEQUENCE DESCRIPTION:

GATCTCAGTA TGGACAGTGT AACAACAAAA CAAAATGGC TGGACAGACT TCTTGTGTTT 60
 TGTAATATA AACTAGGACA GTTCTGTAGG TTTGTTTCA GTGCTAGTGG AGTATTTCCCT 120
 TAATGTAAAA CTTCACTTAA CAGAGAGATT CTTTGTTTAG CAAGCTTGGN GTGATGATAN 180
 AGNGGTAAGA AATAATATA ATGTTGAAGA AAGCATCACA ACAGAACTAT AGGAGTCTAA 240
 ATTTAATAAA TCTTTAAAAA AAACCAGTGT CTAGAATATA TACCATGTTT TATTATTTAA 300
 AATCATTGTC TTAATTTTTT GTTCAAAAAA TAAAAATTTG AATACAATCA AA 352

SEQ ID NO:1540
 LENGTH:351
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01753

SEQUENCE DESCRIPTION:

GATCAGACAA GCCCAAAC TG AGAGACACTC TACAAAATAA CTGGCCAGTA CGTTTTNCAA 60
 GTNCCAAGGC CGTGAACAAT AAGGAAAGAC TGAGGAACAG TCATGGACTG GAAGAGAGTA 120
 AAGAAATATG ATAACCTAAT GCATTGTGAG ATACCGATTT AGATGTTGGA TTAGAAAAAG 180
 GACCAGAAAT AAGATTTTCAAT CAATGTCAAT TATTTGGTTT TGATAATTGT ACTGTGGTTA 240
 TGTAAGATGT TAACATTAGT AAGAGCTGGG TGAAGGGTAC ATGGAACTA TTATTTTTGC 300
 CACCCTTTGA AAGTCTAAT TTTTTCAAAA TAAAAAGTTT TAAAAATAA A 351

SEQ ID NO:1541

LENGTH:357

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01754

SEQUENCE DESCRIPTION:

```
GATCCCAGAT GCAGTGACTG GTTACTACCT GAACCGTGCT GGCTTTGAGG CCTCAGACCC 60
ACGCATAATT GGGCTCATCT CCTTAGCTGC CCAGAAATTC ATCTCAGATA TTGCCAATGA 120
TGCCCTACAG CACTGCAAAA TGAAGGGCAC GGCCTCCGGC AGCTCCCGGA GCAAGAGCAA 180
GGACCGCAAG TACACTCTAA CCATGGAGGA CTTGACCCCT GCCCTCAGCG AGTATGGCAT 240
CAATGTGAAG AAGCCGCACT ACTTNACCTG AGCCACCCAA CCTAAATGGT ACTTATCTGT 300
NCCCATGTNC NTACACCAGC CTGTTTTNAT AATAAACTTT ATTGGTGGA GGGNAAA 357
```

SEQ ID NO:1542

LENGTH:412

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01755

SEQUENCE DESCRIPTION:

```
GATCAGGGCA GTAGGCATAA TTCAGCAACA AACAATCTTC CTTTGGGAGA AACCTNTTCA 60
TTCCAATCTT CTAATTACAG TGGTTCCTAT CTCAGGGATA CTGGACTTTN TGACGCAGAT 120
GAACAATTAA GGGGAAAAGC TTCCCTTTTC CCTCTGTGGC AGTTACGATT TTNACTTCAG 180
TCCTGAGAAA AACTTCAGGT TTTGAAAATC AGATGATGTC TTCTCCTTTT CCAANCACCA 240
CACGTTGAAA GCNTTTTATA ATCCAAGTCT GAAACTCTGC GCTCTAGTAC TGCTGTTAAG 300
NTACACAAC TGTCTTCTNN GTTCATATAA TCTNNGGGTA CNCACNCACA CACNCNTGTA 360
TGGGGGGGGG GGNNTGGCGN TTNCCACCGC GCGTTCNTT TTTGNNGGGT CN 412
```

SEQ ID NO:1543

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01756

SEQUENCE DESCRIPTION:

```
GATCCCAAAA TGCTGCGGGG CAATGACAGC TCAGTTCCCA GAAATAAAAA TCCATTCCAA 60
GAGGCCATTG TTTTGTGGT GGGAGGAGGC AACTACATTG AATATCAGAA TCTTGTGAC 120
TACATAAAGG GGAAACAAGG CAAACACATT TTATATGGCT GCAGTGAGCT TTTAATGCT 180
ACACAGTTCA TAAACAGTT GTCACAACTT GGACAAAAGT AACACAGAAG AACCTTACTA 240
TGATAATCTA CTTGGAATGT GGATAAATGT AAAANGNAGA AAAGTTAGAA NGNGCANTAT 300
GTTTCCTTCT CTGTAACAGT GTCCTAACAG TGAAAATTCA GGN 343
```

SEQ ID NO:1544

LENGTH:340

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01758

SEQUENCE DESCRIPTION:

GATCGANCTT NCTATGGACT CAAGCAGGTG NNGAAGGCCA ATNAAGCCAT GGCAATTGAC 60
 ACATTGCTCA TCAGCGATGA GCTCTTCAGG CATCAGGATG TAGCCACACG GAGCCGGTAT 120
 GTNAGGCTGG TGGACAGTGT GAAAGAGAAT NCAGGCACCG TTAGGATATN CTCTAGTCTT 180
 CACGTTTCTG GGGAACAGNT CAGCCAGTTG ACTGGGGTAG CTGCCATTCT CCGCTTCCCT 240
 GTTCCCGAAC TTTCTGACCA AGAGGGTGAT TCCAGTTCTG AAGAGGATTA NTGATTGAAA 300
 CTTAAAATTT GNGACAATCT TTGTGTTTTT CTAAACTGTN 340

SEQ ID NO:1545

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01759

SEQUENCE DESCRIPTION:

GATCTGCTTT CATTAACTGG AATTCTGTAG GAGATACTGG TGACCTAAGC TAAGTTGCAC 60
 TCAGCATACT CAGTGTCAAG CTAATGAGGT TCTATTATAA AGGTTCTACT TTAAATCTGA 120
 GGGAAAACAT GTTCAGGGCT TCTAGAACAC TAAAAAATTN GGNTTAAACC AGTGTNCAGT 180
 CTGGTGCCAA ACTTCGAATG GAATACAAAT NNCATAATC TGANCTTTGT NCACAGGTTA 240
 TCCTAATAGA GTAATTCTCC ACTTTGCTCT ATTGAACTGT CTTAAGGGAT TTGTTTAAAC 300
 AGCTAAGTTA CTTGATTAAA ATAATGATAA AATTGTAAA 339

SEQ ID NO:1546

LENGTH:362

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01760

SEQUENCE DESCRIPTION:

GATCTGGTAG AAGGTACCAG CTTCCTTTCC AGCTGGAGAG GCCCAACAC TGGATGGTTC 60
 TGTAGGGAGC CTAGGGAGCC TGGTCATCAA CTTGCAATAC CTCACAGAGC CAGTTCACAT 120
 CCCACTCTGA GCTCCACGA GAAACACTGC TTCTCCAGGC CCGGGGTTGT TGGGGAGAGA 180
 GGCAGAGGCA GCTGGAGCGC CGTTCTCTCC TGCTGGGACA CCGCTTGGGC TTTGGTATTG 240
 ACTGAGTGGC TGACAGTTAT CTTCCAACCC CAACTGGCTT GGGGGCAGGA CAAGGGCTTA 300
 GGCTTGATGG TGGNCAGGCT TGNCTGCTCC CCACCTGNGA TGCCCCTGCT CTGGGACCTC 360
 TN 362

SEQ ID NO:1547

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01761

SEQUENCE DESCRIPTION:

GATCCTTTCA GAAAAGAAAC ACTGGGTCCC ATAGCTAAAT TCTCAACCGC CANGCACCTT 60
 CAGAAGAATC CAGCCTAATA CTGGAATTG TGCTATTATC TTCCTCTCCA GCCCCCAAC 120
 TCCATCCCTC ACCACAGTTG TCTAGGAAAT GACATGAATT CAATATCTAA TGTCAACCAA 180
 TGGGGAGAGC CAAACTCCA GGAGAGGTTC CTGAGCTGAG TCCCTTAATT TCTGGATGAA 240
 GAAGACCAAC AAGTTTTGTC CAATGTATTT GTTCTCAGA CCTTGCCTAG GCACTAAAAA 300

TAAAATACTA GGTCAATTGGA GGCTAATGTG GGAAA

335

SEQ ID NO:1548

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01763

SEQUENCE DESCRIPTION:

GATCATTAAAG GAAGGCGATG TAGATGTTTC AGATTCTGAT GATGAAGATG ATAATCTTCC 60
TGCAAATNTT GACACATATC ACAGAGCCTT GCAAATAATA GCAAGATATG TACCATCATG 120
AGTATACTGN TCCTTATTTT GAATGTTTAA TTCTCAAGAA AATTGTAATC AATTAGTAAA 180
AATTATAAAA TGTTAATAGT ATTAAAGCTT GAGTCTTACA TTGCATTTTT TTTTTNGNA 240
NCCACTTGGG GAACCATTCC ATNCTCCAAA ANGGGGCATT CCCATTTCTT NTTNATCCCC 300
TNNAATGGTT TTNCAAAGTN NGTNTGCNGN 330

SEQ ID NO:1549

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01764

SEQUENCE DESCRIPTION:

GATCATGGTG GATGAGGAAG CCTCAACGTA GATTCCTGAA CTCAAGGTAC CAGCAAGANT 60
GCNTTCTCCC AGTGTGCTCT CCCCAACATC CTAGGCACAG CTTTCATAAC CCAGTTTCTT 120
AGGTGTAAGA AACTGTTTTN ATCTCATTTA TTAAGTCTCA GAACTTAACA GAAAAGGAAG 180
CCTTTTAAAT ATTCTTTTAA ATNTTATTTT AGATTAACAG TTTTGNACTT TACATTTTTT 240
TATACAACCA NCCAGTTTCT TTNCTAGCCA ATCATCTCTG ANGAGTTGCT GTTTCTTACT 300
GACAATAAAA NNTGTNCTCT TGGTTCGAAA 330

SEQ ID NO:1550

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01765

SEQUENCE DESCRIPTION:

GATCAACATC TTTCTTGCC TCTGTCCCCT TCTCTCATCT CTTAGCTCCC CTCCAACCTG 60
GGGGGCAGTG GTGTGGAGAA GCCACAGGCC TGAGATTTC TCTGCTCTCC TTCCTGGAGC 120
CCAGAGGAGG GCAGCAGAAG GGGGTGGTGT CTCCAACCCC CCAGCACTGA GGAAGAACGG 180
GGCTCTTCTC ATTTACCCCC TCCCTTTCTC CCCTGCCCCC AGGACTGGGC CACTTNTGGG 240
TGGGGCAGTG GGTCCCAGAT TGGCTCACAC TGAGAATGTA AGAACTACAA ACAAATTTTC 300
TATTAAATTA AAATTTNTGT GTCTCCAAA 329

SEQ ID NO:1551

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

00687

CLONE:HUMGS01766

SEQUENCE DESCRIPTION:

GATCCCAACT GCTCCCTNCC CTCGCCGGTG ACTCCTGCAC CTGCGCCGGC TCCTGCAAAT 60
GCAAAGAGTG CAAATNCACC TCCTGCAAGA AAAGCTGCTG CTCCTGCTGC CCTGTGGGCT 120
GTGCCAAGTG TGCCAGGGC TGCATCTGCA AAGGGGCGTC GGACAAGTGC AGCTGCTGCG 180
CCTGATGCTG GGACAGCCCC GCTCCAGAT GTAAAGAACG CGACTTCCAC AAACCTGGAT 240
TTTTTATGTA CAACNTGAC CGTGACCGTT TGCTATATTC CTTTTCTAT GAAATAATGT 300
GAATGNTAAT AAAACAGCTT TNACTTGAAA CAAA 334

SEQ ID NO:1552

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01767

SEQUENCE DESCRIPTION:

GATCTGTTTG GACTATGTTT TCTTTCTTC TCCCACTTGC TCAGCAGCTT GGGCTTCCAT 60
TCTAGTTCTT TTACCAAGAT TTTGTGTGA CCATGTTGAC TTCATTTGGA TTGCCCTCTT 120
TCAATTTCTT TGTGAAAACA CCCTTAACCT TCTCTTTACC CTTAGCTGAA ATGTTTACAT 180
AGCTTCTGGT GATATCTTTN CATGATTTTA TATCTCTTAA AATGGTGATG GATGTGACAC 240
CTCATAAAG TGAGCTTTGA ACTGTAGATA ACTCTTAAAG AAAATGTCAT TTTAGACAAT 300
TAAAAATTTT GTGCTCAACT GCTTGAAA 328

SEQ ID NO:1553

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01768

SEQUENCE DESCRIPTION:

GATCGAAATG TTAACACCGG GAGCTCTNCA GGACACTCAC CCAGCGACGC TCGTGGGGGA 60
AACATACTAA ACGGACAGAC TCCAAGANCT GCCACCGCTG GGCCTGCACT GCGGCCCCC 120
ACGTGAACTC GGTGTAAACG GGCCNGGGAA GAAAAGCAGA GAGAGAATTG CAGAGAATCA 180
GACTCCTTTT CCAGGGCCTC AGCTCCCTCC AGTGGTGGCC GCCCTGTACT CCCTGACGAT 240
TCCACTGTAA CTACCAATCT TCTACTTGGT TAAGACAGTT TTGTATCATT TTGCTAAAAA 300
TTATTGGCTT AAATCTGTGT AAAGAAA 327

SEQ ID NO:1554

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01769

SEQUENCE DESCRIPTION:

GATCAGCAGA CCACGTATTT AAAATTCTGA ATCTTCTGGG ACAGGGTTGT AACTCAGCCT 60
TCCAAAGGGA AGAGTGCAGG GGGACGGGGC CATGATATGG GGAAATGGTG TAAACTAATG 120
TATTTNTTTA TTGGCTGTTA TTCTGTATAA CACTCATATC TTTGCCAAAG TTCAATTTTA 180
TATTTAGGCA ACTGATGGTC CTTTTGCATT TAGGATTTTN GTTGTGTGTA CTTTATACCT 240

CATGATATAA GGAATGGGCT CATGTGTCTT CCGTCTTTTG GAAGGAGGTT GACATATTTT 300
AAATAAATGC TTTTAAATAC AGTAAA 326

SEQ ID NO:1555

LENGTH:387

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01770

SEQUENCE DESCRIPTION:

GATCAAAAAG AACAGAACCC TCTCCAGCCT GCTGACCCGA ACCCAACCAC ACAATGGTTT 60
GTCTCAATCT GACCCAGCGG CTGGACCCTC CGTAAATTGT TGACGCTCTT CCCCCTTCCC 120
GAGGTCCCGC AGGAGCCTAG CGCCTGGCTG TGTGTGCGGC CGCTCCTCCA GGCCTGGCCG 180
TGCCCGCTCA GGACCTGCTC CACTGTTTAA CACTAAACCA AGGTCATGAG CATTCGTGCT 240
AAGATAACAG ACTCCAGCTC CTGGTCCACC CGGCATGTCA GTCAGCACTC TGGCCTTCAT 300
CACGAGAGCT CCGCAGCCGT GGCTAGGATT CCACTTCCTG TGTCATGACC TCAGGAAATA 360
AACGTCCTTG ACTTTATAAA AGCCAAA 387

SEQ ID NO:1556

LENGTH:325

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01771

SEQUENCE DESCRIPTION:

GATCACAGAT GGATNTTGTT ATAAGCATCA ATGTGACACT TGCAGGNCAC TACAACGTGG 60
NACATTGTTT GTTCTTCCA TATTTGGAAG ATAAATTTAT GTGTAGACTT TTTTGTAAGA 120
TACGGTTAAT AACTAAATTT TATTGAAATG GTCTTGCAAT GACTCGTATT CAGATGCTTA 180
AAGAAAGCAT TGCTGCTACA AATATTTCTA TTTTAAGAAA GGGTTTTTAT GGACCAATGC 240
CCCAGTTGTC AGTCAGAGCC GTTGGTGTTT TTCATTGTTT AAAATGTCAC CTGTAAAATG 300
GGCATTATTT ATGTTTTTTT TTTTN 325

SEQ ID NO:1557

LENGTH:322

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01772

SEQUENCE DESCRIPTION:

GATCTGTAAT TCATAGTCAC ATCAAGGTCA TCAAGACCAG GAAAAACAAG AAAGACATAC 60
TCAATCCTGA TTCAAGTATG GAAACTTCAC CAGACTTTTC CTTCTAAAAT CTGGATGTCA 120
TTGACGATAA TGTTTATGGN GATAAGGTCT AAGTGCCTAA NAAAATGTAC ATATACCTGG 180
TTGAAATACA AACTATACA TACACACCAC CATATATNCT AGCTGTTAAT CCTATGGAAT 240
GGGGTATTGG GAGTNCTTTT TTAATTTNCC ATAGTTTTTT TTAATAAAAT GGCATATTTN 300
GCATCTACAA CTTCTATAAT TN 322

SEQ ID NO:1558

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01773

SEQUENCE DESCRIPTION:

GATCTTTCTT TAATAGTGAA CCCCTGGGCC ACTGAAGAGT AACATGGCTC CACTGGACAC 60
AAAAGAGGGA TGGAATCAAC AGGCAGGGGG CCTTTTATAA GCCTTAGGAA AAGAAAATGA 120
AACTATTTCA TCTTTGGACT TTTCAATACT ATTGGAGTGA TTTTTTTTTT TCTAAACAGG 180
GAAAATAATG TTACAAAAGC ATCTTTTTTG TNATTTGTTT GCATCCCTCC CCCACACCCT 240
GGTGTTTTAA ANTGANGAAA AAAANCCATC ACCTTTTGTA CAAAANCTCT TAATGNNTAA 300
CAAAACAAACA AANCAGAAA 319

SEQ ID NO:1559

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01774

SEQUENCE DESCRIPTION:

GATCTGGCTG CGCTATGACT CCGGGAGCGN CACCCACAAC ATGTACCGGG AATACCGGGA 60
CCTGACCACC GCAGCGCTGT CACCCAGTGC TACCGAGACA TGGGTGCCCG GCACGCGCCC 120
GAGCCCACTC CATTCAATC TNACAGCAGT GTTCTTGCAA TATGAGGAGA CAGTTACAGC 180
CACATTATGG CTCTCATTGA ACAGTACGCA GCACCCCTGC CCCAGCCGT NTTTTTGGGG 240
CTTGCGCGAA AATCTACAAG CGGGAANGTG ACCTNGGATT CAAGGGCGGG GAGAGANGCT 300
TNAATAAATA ATCGTN 316

SEQ ID NO:1560

LENGTH:390

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01775

SEQUENCE DESCRIPTION:

GATCTAGAGG GTCGGACCCA CATATTTAAG ATTCACGNTC GTTCAATGAG TGTGAAAGA 60
GATATCAGAT TTGAAGTGT AGCACGACTG TGNCCAAATA GCACTGGTGC TGAGATTAGA 120
AGCGTCTGCA CAGAGGCTGG TATGTTTGCC ATCAGAGCAC GGCGAAAAAT TGCTACCGAG 180
AAGGATTTCT TGGAAGCTGT AAATAAGGTC ATTAAGTCTT ATGCCAAATT CAGTGCTACT 240
CCTCGTTACA TGACATACAA CTGAACCCTG ANGGCTTTCA AGTGAAACT TTAAATTGGA 300
ATCCTAACCN TATATAGACT TGTTAATAAC CAATTCATAA ACAAATAAAT GGCTTCAAAA 360
TTGAAAAAAA NNNGANNNNN NNNNAGNNNN 390

SEQ ID NO:1561

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01776

SEQUENCE DESCRIPTION:

GATCTGCTTA GAGTGGATTT TCACTCAAGT CCTTAGTAAG TGGATTTTGG GGAAAAAGC 60

ACCTGGGCTT CTGGTCTTT TTGATAATAT ATAAAAATTAT TCATTATGAG GTTGCAGTTG 120
 TTTGCAAAGG AGAGGCACTC AAATTGAAA GGTATTTTA ATGTGATAAT TTGGAAGACT 180
 TACTCAGATG TTGGTCATTG ACCACTCTGT GCATATATTT CTGCAGAGCT CTGTGAAGGC 240
 AATGAGTGTC ACTTCCCTCT GCTCTAATAA AGCAATAAAT AATAGCTAAA GGGCTGACTT 300
 TCACTTCGAA A 311

SEQ ID NO:1562

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01777

SEQUENCE DESCRIPTION:

GATCTTTCTA CAACATTTAT CCTGGTTGTT AAGCCCTCCT TACAACATTC TTCTCTCTTT 60
 GTTTTATAG CTCCATCTCT CCTGCTTCTT TAACTTGATA ATGCATACTT GATTTTCCTA 120
 TTTGTNATTT CATAAACCAA TTAATACACA GATAAAATGA CTGTATATCA AACCATGTTT 180
 GTATAGAAAA ANTGGATTTN GGATGCCTCT CATATGTAAT TAGTTCTATT AAACATATTA 240
 ATNGTATTGT TTAATTNGTC AGGTTTTTGA CAGANTTTTG TTTACAGGTA ATAAANNNT 300
 TATCTCCAAA 310

SEQ ID NO:1563

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01778

SEQUENCE DESCRIPTION:

GATCGAAAAA AAAATCCAGA ACCTTGGGAA ACTGTGGACC CTACTGTACC TCAAAGCTT 60
 ATAACAATCA ACCAACAATG GAAACCCATT GAAGAGTTGC AAAATGTCCA AAGGGTGACC 120
 AAATGACGAG CCCTCGCCTC TTTCTTCTGA AGAGTACTCT ATAAATCTAG TGGAAACATT 180
 TCTGCACAAA CTAGATTCTG GACACCAGTG TGCGGAAATG CTTCTGCTAC ATTTTtaggg 240
 TTTGTCTACA TTTTNGGGC TCTGGATAAG GAATTAAAGG AGTGCAGCAA TAACTGCACT 300
 GTCTAAA 307

SEQ ID NO:1564

LENGTH:305

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01779

SEQUENCE DESCRIPTION:

GATCCTGTGG TTGGCCACTG GCCATAGCTG CTGCCCAGCT CTACCCCTCC CAGGGACCTA 60
 CCCCTCCAG GGACCGACCC CTGGCCCAAG CTCCCCTTGC TGGCGGGCGC TGGTGGGCC 120
 CTGCACTTGC TGAGGTTCCC CATCATGGGC AAGGAAGGGA ATTCCCACAG CCCTCCAGTG 180
 NACTGAGGGT ACTGGCCTAG CCATGTGGAA TTCCCTACNC TGA CTCTCCTC CCCAAACCCA 240
 GGGAAAANAG CTCTCAATTT TTNATTTTAA ATTTTGTGTT GAAATAAAGT CCTTAGTTAG 300
 CNAAG 305

SEQ ID NO:1565

LENGTH:304

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01780

SEQUENCE DESCRIPTION:

GATCACAGCT AGAGAATTGA GAATTAAC TA TACTACTAGC CATTTTAGGG CACCAAACT 60
TGGGATTAAA CACTTCCTAC TTCCCACTCC CAACTCCTGA AATGAAGTCT TGCTATCTGT 120
GACTAGTTTT ATTTTGTGC TTTTAATAGT CCGAGCAGTC TTACCTTGTT TACACATGTA 180
TTGACACCAT TTGCTTCAGG CCATGGAGCA CTGTTTCTCC CNTTTTACTA TTTATAGGAT 240
TCCGTTTTTT CACAAGACTT TTAATAAAAA GAAATTGTAG AAATAAACAC ATTAATAATT 300
GAAA 304

SEQ ID NO:1566

LENGTH:304

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01781

SEQUENCE DESCRIPTION:

GATCTGCTTT CTCGTAATTA TAGATTGGTT TGCATTTTCT AGAAATTTT AAATAAATGG 60
AAACATATAG TGAGTACTCT TCTTGGGGTG GAAGGAAGTG TGTGTGGCTT TTTTCACTCA 120
AGCATAATTA ATTTGATACT CATCCAGATT ATGCATGTAT CAATAGTTTA TTCCTTTTTT 180
ATTGCAGAGT AGTAGTTANN NNCCTGGGTA TNCACAATTT GTTACCTGTT CATCTATTGA 240
TGGNCAATTG GGGTATTTCC AGTTTtagct ATTACAAATA AACCTGCTGT GACATCATGN 300
CAAA 304

SEQ ID NO:1567

LENGTH:304

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01782

SEQUENCE DESCRIPTION:

GATCTGCTAT AGCTGTCCAT CAGAGAGAAT ACACGTGGCT ATAACATCTA TAACAAAACG 60
ACGATTCTTC TACAAGAGGC TGTTTCTNAC TGCTAACGTT GGTGTTTCTG GCGTGGGAAG 120
AAATGCACAG GCGTGCATGG CATGCACGTN CAGACAGCTG CATTGTAAGA NTNCTGTCAT 180
GCAGTCTGAA AAGGGAAGAA ACAGGATGGC TTTCTGTAGC CACACCTGTG AGGCGTGATG 240
ATTGTNGTAT TATTAGATTA CTGATTTTCC TTTTCTGAAA ATACATTTGN NTTTAATCA 300
CAAA 304

SEQ ID NO:1568

LENGTH:304

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01783

SEQUENCE DESCRIPTION:

GATCTGCTGT TGCTGAGAGT NTGAGCGTGG ACTTGATGCA GTNATGACAA ATCATTGCTT 60
 AGAATTAATG TTTTCAAATG TGCAACTCTA GTTTTTAAAA CAAAATTTGG TTCTTTACAT 120
 TCATTATTTT GTTTTTGTTT CCCTTTAGTA TTTAATGGTC TTTGGAGAAA AAATAATAAA 180
 ACAGAGTGTT ATATATATAT TTTTGGTGC AAGATAAGAT TTTCTGTTT TTGAAATAAG 240
 TCTGTAGCAT AAAAGGTAA ACTATTTTAA GGACANANTA AAAATAGGAG TGTATTTAAA 300
 CAAA 304

SEQ ID NO:1569

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01784

SEQUENCE DESCRIPTION:

GATCCAGGGA TGAGGATAGA GTGGCCTGAG AGCAGTGCTT GGATTCAGCC TCCTGCTGGG 60
 TCCTTCTGCT GGATACAGGC ACCAAGAGGC GGGGGTGGAG CAGGGAGCTG CGCCTTCCTG 120
 GGGTGCCNGG TGGTGTGTAG AGAAAAGCTG CTTGTTTACT CCTTAAGTCA ATGTATTGGT 180
 GACTGTTGAT TTGTTGAACA ATTCAGGAAT CAAGGGCTGT GGAGAACTC CCTCATGTTG 240
 TTGGCAACAG GTGAATGAAC CTAGAGCGGT GACATGAAAA TAAAGCTCAC TGTTACTCGC 300
 AAA 303

SEQ ID NO:1570

LENGTH:302

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01785

SEQUENCE DESCRIPTION:

GATCCCCGA CGACGTGCTC GAGTTCCTGA AGGTGTATGA GANGCACTCT GCCCAGTGAG 60
 CACCTGCCCT GCCTGCATCC GGAGAATTGC CTCTACCTGG ACCTTTTGTC TCACACAGCA 120
 GTACCCTGAC CTGCTGTGCA CCTTACATTC CTAGAGAGCA GAAATAAAAA GCATGACTAT 180
 TTCCACCATC AAATGCTGTA GAATGCTTGG CACTCCCTAA CCAAATGCTG TCTCCATAAT 240
 GCCACTGGTG TTAAGATATA TTTTGAGTGG ATGGAGGAGA AATAAACTTA TTCCTCCTTA 300
 AA 302

SEQ ID NO:1571

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01786

SEQUENCE DESCRIPTION:

GATCCATTTT GCTTACACTG TTGCATCACA AGGGACTCAC CCAGGGACCA TGACCTGCTG 60
 GTGTGTGTGT ATATTTACAA AAACAAAACA AACAAACCAC CCATTGGGAT ATAAGGTAGC 120
 AATCACAAC TAAAGACTGC GGCTTGTTGA GGTGCAATAC CCTGACTCCC AAAGTTAGTT 180
 ACAGTGGGTT TTATTGTTTT TGTGACTGAA GGATTTATTC AGACTGCTGT ACTCTTCATT 240
 TGATGTAACA AAATGCTATT AATCTAAATA TTTGTAAATA AAGTACCTGT ATCTAGATTA 300
 AATTAAA 307

SEQ ID NO:1572

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01787

SEQUENCE DESCRIPTION:

GATCCATTAC CTAGGGTAAA ATTCTCCTGA ATGTCAAACA AAGAGATAAA CTACATTTGG 60
GTTTTGGGAA GTCCCGTGTA ATGATGAATC AAGAATCCTC AAGTCTGTCT TGCCACCCAT 120
TTAATACGTA TTTTGTAA GGCTGAAGTT TAGAGTTAGA ATCAGGACAT TTTGGCCTAT 180
TGAGAGGTTT TGAATCCAA CAGAAGATGC CATGTAAATC AGTGAATTTN ATTCTTTTAA 240
AAGCAACTTA CAAAATTAC AAGATGTATT CAATAAAGCA GTTTAGCTTT GGTATATCAA 300
A 301

SEQ ID NO:1573

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01788

SEQUENCE DESCRIPTION:

GATCCTCAGT GTGCTCACGG GGCTGCTGTT CGGCAGCNAT GGCTACTACG TGGCGCTGGC 60
CTGGACCTCA TCGGCGCTCA TGTACTTNAT TGTGCGCTCT TTGCGGACAG CAGCCCTGGG 120
CCCCGACAGC ATGGGGGGCC CCGTCCCCCG GNAGCGTCTC CAGCTCTACC TGA CTCTGGG 180
AGCTGCAGCC TTTNCAGCCC CTCATNATAT ACTGGCTGAC TTTCCACCTG GTCCGGTGAC 240
GTCTNGCCCC AGATGGNAAT NAGTTTTTA ATTCATTGN AAGGATTTG AANTCCTTG 300
AAA 303

SEQ ID NO:1574

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01789

SEQUENCE DESCRIPTION:

GATCTGTGTT CGAATCCTCC CCACCCCTTT CTTTGTGGAG TTTCCTAACC TGCTGCTGAA 60
GCACAATGTT TTGGTGCTTT CTTTCTCNN TTGTTAAAGG CAGTGTCCTA AAGCCATTCC 120
AGATGCCAAG ACCAGGGGCT TATTTCTAGG GAAGGTAGGT CGGTTTCCAT GTTCCCTCC 180
CGTTATTTTT ATTTTNACT TTTGCCTGA GACAAGCCGA GTATGAGGTG GTTTGATTTA 240
AGAAAAATCA ATGAAATTGT TTACTACTGT TTTAAATAA AACCGTAAAC TCTGAAA 297

SEQ ID NO:1575

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01790

SEQUENCE DESCRIPTION:

GATCAGGCCG TTNCTGAGCT CAACGGGACC CAGGTGGAGT CTGTACAGCT CAAAGTCAAC 60
ATAGCCCGAA AACAGCCCAT GCTGGATGCC GCTACTGGCA AGTTTGTNTG GGGCTCCCTC 120
GCTGTCCAGA ACAGCCCTAA GGNTTGCCAC CGGGACAAGA GGACCCAGAT TGTTCACAGT 180
GATGACGTCT ACAAGGAAAA CCTTGTGGAT GGCTTCTAGG GAACAGNGCT GGATTCCTTG 240
TGCCTCATAT GCCCCAAATG CTGGTTTTCA GTAAANCACT TGAGGGTGGA AGCTTNAAA 299

SEQ ID NO:1576

LENGTH:300

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01791

SEQUENCE DESCRIPTION:

GATCCAAGAT AAAGAAGGCA TCCCCCCGA CCAGCAGAGG CTCATCTTTG CAGGCAAGCA 60
GCTGGAAGAT GGCCGCACTC TTTCTGACTA CAACATCCAG AAAGAGTCGA CCCTGCACCT 120
GGTCCTGCGC CTGAGGNGGT GGCTGTTAAT TCTNCAGTCA TGGCATTGCG AGTGCCAGT 180
GATGGCATT CTCTGCACTA TAGCCATTTG NCCCAACTTA AGTTTAGAAA TTACAGGTTT 240
CAGTAATAGC TNGAACCTGT TCAAAATGTT AATANAGGTT TCGTTGNATG GGAGCATAAA 300

SEQ ID NO:1577

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01792

SEQUENCE DESCRIPTION:

GATCTGGCTT CTTTCCCAAG GNGGGGGTGG GGTGTNCCTN GCGTCCCTGT CCTTGANGGA 60
CCTCCTTCCC CCAGCCTCAT CACCGTGCTC TTCTCAGCGC CACCCTCAGC AGCCAGATTG 120
CAACACCAGG GAGAGGCGGA TGCAGAGCCC CACCGGTGGG AAAGTTGCCT GTGGAAGGGA 180
GCCTTTTGCT ACAATTTGTA ACTTATTNC TAAAGTCTAT TTTGTAACAA TTTATTTAAG 240
TTTAAAAAAA GGAAACTGC TGCCCNCCAA AAAAAGAAAT TTTCAAAACA AGAAA 295

SEQ ID NO:1578

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01793

SEQUENCE DESCRIPTION:

GATCTAAAGT TCTGGCTGTC CATTAACTC CAACTATGGT CTTTATTCT TGTGGTAATA 60
TGATGTGCCT TTCCTTGCTT AAATCCCTC CTGGTGTGTA TCAACATTAT TTAATGTCTT 120
CTAATTCAGT CATTTTTTTA TAAGTATGTC TATAACATT GAACTTTAAA AAACCTATT 180
ATTTATTCCA CTAATGTAGC AATTGACAGA TTAATAAAT GTAACCTCAT AATTTCTTAC 240
CATAACCTCA ATGNCNTNTT TTAATAAATA AAAATTAAAA ATGAAAAGNG NTANAAA 297

SEQ ID NO:1579

LENGTH:289

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01794

SEQUENCE DESCRIPTION:

GATCTCTCTT GTCCNCTNCT GCTCTTTNCT TGGTGCTCTT TTNCTCGGT GGGGTGTGGG 60
TAATAGAACA GCCGTGGGCT TTTGGGGACC TTAACTTTT TTNCTCTCT TTTGTTTATA 120
AAAAACACTA AACATTCAAT TCCAGAGAAC CAAAAATCCC ACCTTCCCAC CGAACACTAC 180
TAAGGGGCTT GTGTTCTGCN CCATACCTTT NCTCTTTNCT TTCTGTCTTG TTAATGCTTT 240
TAAAAACAAA TGAGTTTTTT ATATAAATAA AGTTTTTAAA GTGTGTAAA 289

SEQ ID NO:1580

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01795

SEQUENCE DESCRIPTION:

GATCCCATCC GCATGGAGTT TGAAAATAAG GAAGACTTGT CGGGAACACA GGCAGGGCTC 60
AACGTCATTA AAGAGGCAGA GGCACACNCC NGGTGGGCAG CCAAGGAGCT GAGAAGANCG 120
AAGAAGCTTT CAGACTACGT GGGGAAGANT GAAAAANCCA AAATTATCGC CAAGNTTCAG 180
CAAAGGGGAC AGGGAGCTCC AGCCCGAGAG CCTATTATTA GCAGTNAGGA GCAGAAGCAG 240
CTGATGCTGT ACTATCACAG AAGNCANGAG GNGCTCANGA GATTGGN 287

SEQ ID NO:1581

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01796

SEQUENCE DESCRIPTION:

GATCTATTGG CATATTCGGG AGCTTCTTAG AGGGATGAGG TTCTTTGAAC ACAGTGAAAA 60
TTTAAATTAG TAACTTTTTT GCAAGCAGTT TATTGACTGT TATTGCTAAG AAGAAGTAAG 120
AAAGAAAAAG CCTGTGGCA ATCTTGTTA TTTCTTTAAG ATTTCTGGCA GTGTGGGATG 180
GATGAATGAA GTGGAATGTG AACTTTGGGC AAGTTAAATG GGACAGCCTT CCATGTTTCAT 240
TTGTCTACCT CTTAACTGAA TAAAAAAGCC TACAGTTTTT AGAAA 285

SEQ ID NO:1582

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01797

SEQUENCE DESCRIPTION:

GATCTCCCC TTTTGAAATG GCCCTGCTGT GTCAGTTTCC CTGTGGCCTT TTGAACTGTA 60
CATCTCACAT GTTGGGAAAC GCTGGCCACT GGGAAATCAT TAGAAAGGAG GCTGTAGAAT 120
ATTTGCCGAG CCTCTACTGT ATACCAGGGG CTAATCACC AAGCACATTC TAGGAATTGG 180
GCCCTGCTCA TGAGGAGCCT TAGTGGAGAT TCCAGGTGAA TATTTATGAA AAAGTCAACA 240
TTAGAACTGA AAATGGAAAT AAAGTCTTG AAAAGACAAA 280

SEQ ID NO:1583

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01798

SEQUENCE DESCRIPTION:

GATCAGAATG GACTTCTNCC ACTGAGCATG ACANGCACTC GAAAGGCTAA ATCAACCAGA 60
AACATCGAAA CAAAAGCTCA GGTGTGCCCC CCGGCACGCT CCACANCTGG TGACCCGACA 120
GTTCTGGCT CCTTGTTTCTAG ACAGCTTGTC AGTNAAGAAG ACANCACGTC TGCACCTNCA 180
TTATTCAAAC TTGGCTGGCT CTCTAGTATG ACTACGNACA TGGAACACAT CTGTCTCTCC 240
CTAAATAANT ACTACCACAT TATTNCTTCT AAA 273

SEQ ID NO:1584

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01799

SEQUENCE DESCRIPTION:

GATCCATATT TGTGTTGTGT TCTGCTTAAA TCAGCAAGAA TGATAAATTT GATGGTGTGA 60
AATTGGAAGT ATCAAGGGCT TTCTTTGGTG ATTGAGGGAA ATAATGTCTC TACTTGAAT 120
TTATTGTGAC CCTTTTTCAC TGTATATGCT TTGTATGTCT AATATTTATT TCAATGCAAA 180
TTCAATTNNC CCTTCATCTG TATTGTTATA TCTAAGATTT TATTGATGTT AAAATCTAAT 240
TGTGGAATAA AAATCTCTCT GGAATTTAAA 270

SEQ ID NO:1585

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01800

SEQUENCE DESCRIPTION:

GATCTGCTTG ACAGTGATTA AATCCTTAGC TCACATCCAT TCCCATCTTT NGGGCTCCTT 60
AGGCCCAAGG ATGGCATGTG ACTGGTCCCT GCAAGGTCCT TTCTTTGTCA CCAGCCAAGG 120
CATTGATAAC CAAGTAGCCA TTTTCTCTT AAGGTTTCCT CTACAACCCC AAGGACTTTC 180
ATGATTATCC TCAGGGACAG GATTGGAGGC ATTGAGCGTG TTTATTAACA AATTGTTTTT 240
GGTAATAAAA TAAATGCTTG GACTCTTAAA 270

SEQ ID NO:1586

LENGTH:269

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01801

SEQUENCE DESCRIPTION:

GATCTNGTAA ACTCTCTGTA TATCTTCCTA CCTTTCAAAA TCGTTCTTAG GGTTAGTCAA 60
GTCTGGAATA TAATTGCTGA CTATAAGTT AGCAATTATG CTTTAAAGGT GTTGTCACAT 120
CAACCTAAAG AGAACCATCT ATGGAAGGTA TGGTTGAAAC ATCTGTAGGA ACACAGAACT 180

GGGATTTAC TGAGTTTACC ANNTCAACTG TGTGAACTGT TTCTGCACTG CTTGCTAATG 240
GCTTCATCTA ATAAATGTTT ACTTATAAA 269

SEQ ID NO:1587

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01802

SEQUENCE DESCRIPTION:

GATCTAGGGA AGTCAACACA TAGTGTAATA TAATTACATG CCTAATGAAA AGAAGATGTC 60
ATTTCTAAT TTTNATATCT CATTTTCGGC ATTTTTTAAA ATGTAAAAGG AAAACCTCTT 120
GTGTTACAC AGATTGCTGA ATTGATTCTT CCATATTGT TAATAATTTA CTATTATTTA 180
CAAAGATTCA AATGCTTTTA TGAATAATGT AAAATGAAAA GAGGCTTACA TTTTAAATGT 240
TATTTAAAT ATGTACTTAA ATCTAAA 267

SEQ ID NO:1588

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01803

SEQUENCE DESCRIPTION:

GATCGCTTTG AGGTCAATAT TAGTGAGCTG CCTGATGAGA TAGACATCTC CTCCTACATT 60
GAACAGACAC GGTAGAAGAC TCGCCCATTT TGGAATGTGA CCGTCTNTCC TTCAGGNGAG 120
GACACCAGGN TGGGGGTGAA GGAGACACTA CTGCCCCCAC CCCTGACAGC CCCCACCCA 180
TGGCTTNCAT CTTTTCATN ACCANCACTC CTGAACCCN ATTTCTNATT TGTCAGAATT 240
TTTTTNNTTA AAAAACTAG AAATGNANCA CATGGGGTCT GTGGTAAA 288

SEQ ID NO:1589

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01804

SEQUENCE DESCRIPTION:

GATCTGCCT GTTTCACAAT GTAACAAGAC TCTACCTGGG TCCCCTGGTG ATGAGTTTCA 60
GCATAGAATA ATGTTCAAGG AAAAGAAAAC GAAAACAGTT TAAATCTCTA CCACAGCCTC 120
ACAAGCAAAT GCTAAGGGGA ACATACATGT AAAANGCCAG CAACTATCT TCAAACCTCTT 180
CCGTCCTTAA TGTCTTCCAT GGCTATTGCC CCCACAATGG TCTCTTTNNT CCCTGCTCCC 240
TTATTAANGA ACTCTTTCTG AAGAAA 266

SEQ ID NO:1590

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01805

SEQUENCE DESCRIPTION:

GATCTATGAC TCCAACCGTA TGATTTTNTT GCCTCCCCAG TTTTCATCCC AGTGGTAACG 60
 CCTGATTTTT GGTAGCTATG CCATCTTCTG CTGAGGATTA CCATTACTGG GTGTATCACC 120
 CCAGTACTTC CAAATNCCTC TCCTCTATTG ATTCAGTTGT TATTGCAGTG TCTGCTTCAT 180
 CCGTGGAAC TGAAGGCTCAG ATGCCCCCTG CTCTGTAACC CTGGGGAATG TCAGAGGCAG 240
 GTAATAAAGG TTGTTTAAAC AATAAA 266

SEQ ID NO:1591

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01806

SEQUENCE DESCRIPTION:

GATCAGGAGA CTTTGAATTN ATATATTTTA ATCCTNATTA AGCTTAAATA GGAAAGTTTC 60
 TTCAACAGGA TTACAGTGTA GCTACCTACA TGCTGAAAAA TATAGCCTTT AAATCATTTT 120
 NATATTATAA CTCTGTATAA TAGAGATAAG TCCATTTTTT AAAAATGTTT TCCCCAAACC 180
 ATAAAACCTT ATACAAGTTG TTCTAGTAAC AATACATGAG ANAGATGTCT ATGTAGCTGA 240
 AAATAAAATG ACGTCACAGG GCAAA 265

SEQ ID NO:1592

LENGTH:254

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01807

SEQUENCE DESCRIPTION:

GATCTGAGAG AAGCCCTGTC CTCCTCTCAC CTCACCCGCC GCTGCCACCA TCTCCTCTGT 60
 GCCAACTCCT TGTGGACCGC AAGAAAGCAT GACTTTGAAA AAGGGAAGCC ATTCCGAGAT 120
 TTTAAATGT TCATGGACTA TTCCATATTA AAAGCTGTTT TTGTTGTACA AAATTCAGTG 180
 ATGTTAGATT CTATTTTATT TTGCCTTCAG AAAAGAAGAA AGTCAAAAAT AAAACTTTTG 240
 TGTATTACAG CAAA 254

SEQ ID NO:1593

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01808

SEQUENCE DESCRIPTION:

GATCCTGGAG GATTCCTAC CCCCCTCCTC TTCGAGNCCC CAGTCGTGAT GTGGAGGAAG 60
 AGCCACCTGC AAGATGGACA CGAGCCACAA GCTGCACTGT GAACCTGGGC ACTCCGCGCC 120
 GATGCCACCG GCCTGTGGGT CTCTGAAGGG ACCCCCCCCC AATCGGACTG CCAAATTCTC 180
 CGGTTTGCCC CGGGATATAA TAGAAAATTA TTTNTATGAA TAATGNAAAT AAAACACACC 240
 TNGTGGCATG GCAAA 255

SEQ ID NO:1594

LENGTH:282

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01809

SEQUENCE DESCRIPTION:

GATCCATGAA GGAGGGCTGT GTGGAGAAGA TTGGGGACTG GCTGAGGAAA AATGTGCTGG 60
TGGTAGCTGC AGCAGCCCTN GNGAATTNCT TTTGTGAGG TTTTGGGAAT TGTCTTTNCC 120
TGCTGCCTCG TGAAGAGTAT CAGAAGTGGC TACGAGGTGA TGTagGGGTC TNGGCTCCTC 180
AGCCTNCTCA TCTGGGGGAG TGGAATAGTA TCCTCCAGGT TTTTCAATTA AACGGATTAT 240
TTTTTCAGNC CGAAAAGNGA TGGTCTGAGT TTNTCTTAGA AA 282

SEQ ID NO:1595

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01810

SEQUENCE DESCRIPTION:

GATCAAATAA ACCAGTGTAG GATATTAAGA CTATCAATTG GTGGGATTAG GCTTGACATT 60
TTATTTTAT AAATATATAT TTNTCCTGAA TGTGTCTGAG TCCAAGAGTG GGCAAAAAAT 120
AATTTNCTAC TTTGGACTAA TCTATAGAGG TTTTGAAG TCTGCATTAC TAACTTGTTG 180
AATTCATGAT ATTCTGCCTA TGGCACAAAT TGTAACCTT TGTTTNCTA AAATAANGTA 240
ATTGAAAACC TGNAAA 256

SEQ ID NO:1596

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01811

SEQUENCE DESCRIPTION:

GATCTGCGCT TCCAGAGCGC ACTAATNCGG TGCTTTGCAG GAGGCAAGTG AGGCCTATCT 60
GGTTGGCCTT TTTGAAGACA CCAACCTGTG TGCTATCCAT GCCAAACGTG TAACAATTAT 120
GCCAAAAGAC ATCCAGCTAG CACGCCGCAT ACGTGAGAA CGTGCTTAAG AATCCACTAT 180
GATGGGAAAC ATTCATTCT CAAA 204

SEQ ID NO:1597

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01812

SEQUENCE DESCRIPTION:

GATCATTATT ATATATAGGT ATTGATTGCT ACCCTGACCA CAGTGCTTTG GACTATGAGA 60
AACTTCTTAG ATTTTATAT GTAAATNCTG TGGACCACTG GGAGCACAAT GCCCACATCA 120
TCTTAAGNNG AGTTTATGTG CAGCATTTAA ATCACTGTGT TTCCTTGTT AACTAAAACA 180
GACATGGGCT TTGATTTTTT TCATACTATT AGACCATATC TCATAAAACC TTTTGAATTA 240
ATGAAA 246

SEQ ID NO:1598

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01813

SEQUENCE DESCRIPTION:

GATCACGCAC ACACAATAAG TCTTCTCTC CGAAACCGGA AGTAAATCTA TATCTGTTAG 60
AAATAATGTA GCCAAAAGAA TGTAATTTG AGGATTTTTT TGCCAATAGT TTATAGAAAA 120
TATATGANCC AAAGTGATTT GAGTTTGTA AAATGTAAAA TAGTATGANC AAAATTTGCA 180
CTCTACCAGA TTTGAACATC TAGTGAGGTT CACATTCATA CTAAGTTTTC AACATTGTGT 240
TCTTTTGTGA TTCATTTTTT ACTTTTATTA ANGGNTCAAA CCCGN 285

SEQ ID NO:1599

LENGTH:241

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01814

SEQUENCE DESCRIPTION:

GATCTAACTA TGTTTCCCC CTTTCAAGAA TAGAACTATT GGGGTGAGGA TAAGGGGTGG 60
GGGAGAAAAA ATCACTGTTT GTTTTAAAA AGCAAATCTT TCTGTAAACA GAATAAAAGT 120
NCCTCTCCCT TCCCTTCCCT CACCCCTGAC ATGTACCCCT TTNCCCTTC TGGCTGTTCC 180
CCTGCTCTGT TGCCTCTCTA AGGTAACATT TATAGAAGAN NTGGAATGAA TCTCCANGAA 240
A 241

SEQ ID NO:1600

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01815

SEQUENCE DESCRIPTION:

GATCCAGAAT ACCCTGACCT CGCCCCAGTT CCAGCAGATG TGGAAGCGTT TGCCAAAGCC 60
ATGCAGAAAC ACGCCAAGCC CGAGCAGAAA GAGGGCGACA CGAAGGACAA GAAGGACGAA 120
GAGGAGGACA TGAGCCTGGA CTGAGCCACG CGCCGTCCTC CGAGGAACTG GGCCTTGCA 180
GTGCGTTGCA CACCCTCACC TCCCACCAC TGATTATTAA TAAAGTCTTT TCTTTTAAA 239

SEQ ID NO:1601

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01816

SEQUENCE DESCRIPTION:

GATCCAAAGT AATATGTAGG TTCAATATTT TGTAGGTTTT ATAATCAAAT GTCTCCCTAA 60
AGAGATGACA TAGGGAAGAA AAGCCTAATG TATCATCTTA ATGGATTCAG TTTTATTAT 120
GCACAAATAA CTGGGCTTGT AACCTAGGAA TATGATTAGA GCGTGATGCT GGCTTAAAAA 180
ATAGGACTNG TGAATCAGAG TTTGTNNNTA ATAACTACT GGTGGGAAAT ATTAAA 236

SEQ ID NO:1602
 LENGTH:235
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01817
 SEQUENCE DESCRIPTION:
 GATCTCCCCG CCGCAGCCTC CTCAGAAGAC ATCGAGCGGT CCTGAGAGCC TCCTGGGCAC 60
 GTTTGTCTGT GTGCTGTAAC CTGAAGTCAA ACCTTAAGAT AATGGATAAT CTCGGCCAA 120
 TTTATGCAGA GTCAGCCATT CCTGTTCTCT TTGCCTTGAT GTTGTGTTGT TATCATTTAA 180
 GATTTTTTTT TTTTGGNAAT NATTTTGAGT GGCAAANTAA NGATTAGCAN TTAAA 235

SEQ ID NO:1603
 LENGTH:324
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01818
 SEQUENCE DESCRIPTION:
 GATCTGCCCA GGTGCGCCAG ACTTCCTAGC ACACGTGCGC GGGAGCAGCT GCTTTGAGTG 60
 CACACACTAC CAATCGTTCC TGGAATACAG GGAGGTGGTG GACGGCCTGG AGAAGGCCAT 120
 CTACAAGGGC CCAGGCAGCG AAGAGGGCCC TGAAGGTGCC AGACGTGNTC CTGCTGACCT TCTGCGGCTC 180
 TCTCTACCC AGCCTGGTAC TGAAGGTGCC AGACGTGNTC CTGCTGACCT TCTGCGGCTC 240
 CGGGCTGTGT CCTAAATGCA AAGCACACCT CGGCCGAGGN CTGCGNCCTG ACANGGNNAC 300
 CTCTCTGAAC TGCAACACTT GGAN 324

SEQ ID NO:1604
 LENGTH:235
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01819
 SEQUENCE DESCRIPTION:
 GATCAAAAAG CAAGCAGAAA TGAATCCACA TTCTAGTCCT TTATGCAGTA TACAAGGAGA 60
 ACTGTCTGT AGGATATTCT CTCCTGATG GTGCAGAACC CAGAATTAGA AGTTTGTGGT 120
 TACAGCATAC TCTGTCCTTC AGAAAGGCGT GATTCTAGCT GTTGACCCCT TGCAGCTGTT 180
 GGAATCTCTG CAAGAACCTC TGTATTCTTC TAATAAATTC CCTCTTTTAT TTAAA 235

SEQ ID NO:1605
 LENGTH:235
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01820
 SEQUENCE DESCRIPTION:
 GATCCCAACA ATGAAGCCAT TCGAAATGCT ATGGGCTCCC TGGCCTCCNA GGCCACCAAG 60
 GACGGCAAGA AGGACAAGAA GGAGGAAGAC AAGAAGTGAG ACTGGAGGGA AAGGGTAGCT 120
 GAGTCTGCTT AGGGGACTGC ATGGNAAGCA CGGAATATAG GGTTAGATGT GTGTNATCTG 180
 TAACCATTAC AGCCTAAATA AAGCTTGCA ACTTTTTTCC CTTTTTGCT TCAAA 235

SEQ ID NO:1606
 LENGTH:234
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01821
 SEQUENCE DESCRIPTION:
 GATCAAAAAG AGAGTGGTTG TGGAACCTGT TGGCCCAGTT GGTTC AAGC CAGAGACATT 60
 CAGAAAGTTT TTAGCTCTAT ATTTGCATGG TGCTGCGTGA NGGAGGACCC CTCTGAATCC 120
 TGAAACCCCT CTTGCCTCTC TTCCACGGAA GAGGGCCTGG GCCCCGTGGA GCCTCAGTGC 180
 CCGTTTGGCC TGCTGCTCTC GCTGACAATA AAGAGCCCTT GCGTTGCACT GAAA 234

SEQ ID NO:1607
 LENGTH:234
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01822
 SEQUENCE DESCRIPTION:
 GATCTGGAAC CTCAGCCTGG CCAGACACAG GCCCTCCCTG TTCCCAGAG AAAGGGGAGC 60
 CCACTGTCCT GGGCCTGCAG AATTGGGTT CTGCCTGCCA GCTGCACTGA TGCTGCCCCCT 120
 CATCTCTCTG CCCAACCTT CCCTCACCTT GGCACCAGAC ACCCAGGACT TATTTAACT 180
 CTGTTGCAAG TGCAATAAAT CTGACCCAGT GCCCCCACTG ACCAGAACTA GAAA 234

SEQ ID NO:1608
 LENGTH:356
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01823
 SEQUENCE DESCRIPTION:
 GATCACATAA AACAGATTTG CATAAAATTA CCATGATTGC TTTATGTTTA TATTTAACTT 60
 GTATTTTGTG ACAAACAAGA TTGTGTAAGA TATATTTGAA GTTTCAGTGA TTAAACAGTC 120
 TTTCCAACCT TTCATGATTT TNATGAGCAC AGACTTTCAA GAAAATACTT GAAAATAAAT 180
 TACATTGCCT TTTGTCCATT AATCAGCAAA TAAAACATGG CCTTAACAAA GTTGTTTGTG 240
 TTATTGTACA ATTTGAAAAT TATGTCGGGA CATACCCTAT AGAATTACTA ACCTTACTGC 300
 CCCTTGTAGA ATATGTATTA ATCATTCTAC ATTAAAGAAA ATAATGGGTT CTTAAA 356

SEQ ID NO:1609
 LENGTH:230
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01824
 SEQUENCE DESCRIPTION:
 GATCACCTAT GCCAAGAAAT AACATTTGGG ATAGTCGTCT TAAAAGACT TGGTGTTATT 60
 TACAGTGTGT GTTTTGATAA CATTTGGCTG GGTCATTTTA ATAGTTAGAG ATGAGGAGGA 120
 GTAAAAGTGA AATTTTGTG AAGGACTTAA ATTATCCAGT GTTCTTTAG CCTTGGTGAA 180

CTATGAAATA CGAAGNCCTT AATTTTGTAC AATAAACTTT TATTTGTAAA

230

SEQ ID NO:1610

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01825

SEQUENCE DESCRIPTION:

GATCTGTTGA ATATTTGCTA AAGACCAGTT CTTTAAGCTA AGACATGTAA AAAATCCCAA 60
ATGGCAGTAC CTCATTGTTT ACTTAGCTTT TGTACTTATA TTTTCAGAG GAAAAACAC 120
TACTGTAAAT TGTGAATAGC CAATACATAA CTGTATTGTA TGCAAATCTG TGATTGTTGG 180
CAGTGTCA TC TGAGAAAC AGATAAATAA AGTTTATTTA CTATAAA 227

SEQ ID NO:1611

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01826

SEQUENCE DESCRIPTION:

GATCTAGCCA AGGCTGGTCT GCAGTATCAG ATGTCCAAAC TCATCTACTA TTAGCCATAT 60
TTTGTGAGTC GTTGTCTAA ACTTTGTCAA AAATGCCTTT GCCATGATTT TGTGCTATC 120
TGGATTTCAA ACATGGACAG TTAGGAAGAT GTGCATTGAA GTAGGAAAAT TTTGTTTCTA 180
TTTGCTGTTA TTTATTTTTT AAATTAATAA TGGAAATGTA TTTTAAAGTT TAAA 234

SEQ ID NO:1612

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01827

SEQUENCE DESCRIPTION:

GATCTGTTGG GTTCTCTATT AATTTATTTT ATACATTATA GATTCTGGGT TGATAAATTC 60
TGCTCAATTT GAAAAATTTT ATATTTTGTG TCAAATCTGT TACAATTTAT ATTGGTGGGN 120
GCAAAAGTAA TTGCGGTTTT TGCCGTAGAC AGTAATGGCA AAAACTGACA ATTGCTTTTG 180
CACCACCCTA ATAATATTAA NTATAATCAT GACTTTAAAC ATCAAA 226

SEQ ID NO:1613

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01828

SEQUENCE DESCRIPTION:

GATCGGGAAC TGGCTCCGTT GTGCTGAGGT CATCTTTGGT CATCAGCCTC CAGCATNTGG 60
AAACACCTCC AACGCAATGT GGCTTTTACA TTTCTTTCTT TCTTTCTTTT TTTTCCTGG 120
TACTGGGAAT ACACAACACC AGCTGTTTTA TTATTATTTG GGGAGGGGGT TGTGATTTTA 180
TTATTNGTTT TTTTAAAATG AAAAAATAAA NGTTATATAT TAAA 224

SEQ ID NO:1614

LENGTH:222

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01829

SEQUENCE DESCRIPTION:

GATCAGCAGA TACATGTCAG TGCAGAGGTT CTCTGCCCTC CAGAAGCCCT CGTCTGGGAA 60
TTCGAGAGAG GAGGAGGACC CAGGGCCAAA GGAATCCTCA AACTTCCCTC CAAGGGAGAT 120
ATTGTAAGGG GAAAACAAAG TGTTTATTTT CCAAAAACAA CCCAGCTTCA CCCCATGTCC 180
CTTCTACACG CTTACTCACT GAGGGTGAGT GGAACGNTA AA 222

SEQ ID NO:1615

LENGTH:222

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01830

SEQUENCE DESCRIPTION:

GATCAGAATA TGTATGCAGT TCTTTCTTTA ACCCTTTTTT CTCCTATGTA CTGTGAACAT 60
TTAAAAAGTA CTTTAAATA TTCTTTGGAA ACTTAGCTTT TAGTAACTAC TTGGTTGTAT 120
CATAATTNAT TAACTANTGN NTTATTGGTA AACATTGGCT TGCCTCCCAT GACTTGCCAT 180
TATAATTAAA ACTGTGACTA CTATCTGTCT CCATTNCATA AA 222

SEQ ID NO:1616

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01831

SEQUENCE DESCRIPTION:

GATCCCN TTC CCACCCTCTC TGTTGGCCTC AGAGTCACTC CTGCCCCCTC TCCCTGACTT 60
GGTGCTCACA TGCACCTCAC TAGGGTTTGT GACCAGGGTC TGGATGAGCT TGAATTTGAA 120
TGAATTGAGT TTGTATTTNT AGAACCCTGG GTTTTACAT GTTGGTCTT TTTNGTTTT 180
GGTTTGTCAC CNTCGATAAA GGAAGTATAT TCATCCAAA 219

SEQ ID NO:1617

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01832

SEQUENCE DESCRIPTION:

GATCGCGGCG GANTNGGCCC CGCGCCTGG TACTCAAGCC CGCGGGGACA TTGGGAAGGG 60
GACCCCGGCC CCCTGCCCTC CCCTCTCTGC ACCGTACTGT GGAAAAGAAA CACGCACTTA 120
GTCTCTAAAG AGTTTATTTT AAGACGTGTT TGTGTTTGTN TGTGTTTGTN CTTTNNATTG 180
AATCTATTTA AGTAAAAAAA AAAATTGGTT CTTTATTAAA 220

SEQ ID NO:1618
LENGTH:216
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01833
SEQUENCE DESCRIPTION:
GATCANGGCA CTTCAACTCA TTTGGAAAAT NTGAACACTG ATGACATGGT ATAGGAGTGG 60
GNNGGGTGTT GAGCCACCCA TCANACCCTC TTTAGCTGTG CAAGATAAAA GCAGCCTGGG 120
TCACCCAGGG CCACAAGGCC ATGGTTAATT NTTANCGGCA AGGCAAATCC ATNGTTGNGA 180
AGTGCANTGG GCATAGTAAA NGTGCATGAT TTAAAN 216

SEQ ID NO:1619
LENGTH:214
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01834
SEQUENCE DESCRIPTION:
GATCATAGAA AATAAATAGA AGAGACAGTG AAGCAAGTAA AAAGAAAAGC ATTGTTTTAA 60
TTGTTTGCA TTAATTTTTT TCATTTGTCA AAATGCTTCT TTTGTTGCCA CAGTAAAGAA 120
CAGTTTTTAT TGTTTTGTAA GTAAAATTAC GTAGCTGATT TTGTATGTAA AGATTAATTT 180
CCATAATAAA AATTATTGTA TGTTTACTGT GAAA 214

SEQ ID NO:1620
LENGTH:214
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01835
SEQUENCE DESCRIPTION:
GATCAGAGTG GCCCAGAGAC ATTGCTTTCT TATCACCTAT CATGTGAATT CTACCTGTAT 60
TCCTGGGCTG GACCACTTGA TAACTCCAG TGTCCTGGCA GCTTTTGGAA TNACAGCAGT 120
GGTATGGGGT TTATNATGCT ATAAAACAAT GTCTGAAAAG TTGCCTAGAA TATATTTTGT 180
TACAAACTTG AAATAAACCA AATTTGATGT TAAA 214

SEQ ID NO:1621
LENGTH:211
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01836
SEQUENCE DESCRIPTION:
GATCTGTGTC ATAAGTGACT CCGGATGCAT CAGTGTCCAC CAGTTGGAAG CAATGACAAG 60
GATGGCTGGC TGGTGTTTTT CAGCCTTCCG GTTATAGAC TGTATTTATC TAGTGGATTTC 120
CTGCAGGCCC CATACTGAGC CTGGACTGAA AGTATCCACT CGGACCATCT GTTATCTCTC 180
TACACTGAAA ATAAAACCTC TTCCACCCAA A 211

SEQ ID NO:1622

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01837

SEQUENCE DESCRIPTION:

GATCTGAGAT GGAAGAGTTT CATCCCAAAA CCATCTCCCC CTGACCCCCA GTCCATGGAA 60
AAATTGTCTT CCACAAAACC GGTCCCTGGT GCCAAAAAGG TTGGGGAAC TCTGGTCGGT 120
ACAAAAGTAA TTGTGGTTTT TGCACNGTTG GAATTTGTCA TNTGATATTG GAATACATTC 180
TTAAATAAAT GTGGTTATGT TATACATCAA A 211

SEQ ID NO:1623

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01838

SEQUENCE DESCRIPTION:

GATCAGCGAG GTTCTCCAGG ACCTTAGGTT TGATGCGGAA TCTGCCGAGT GATGGCGGGT 60
CCCCAGGGAT GCCGCCGAGG GAGATGGGAA ACGGGGCGGA TGGCGCCCAG CCCAGCCCTA 120
ACTGCCAGCT GGCTGGGGTC GCGCCCCACT GCGCTGCTGA CCTTCCTGCA GTTCCAGACA 180
CCTCCCACAA TAAAGAGCTC CTCCTCTGTA AA 212

SEQ ID NO:1624

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01839

SEQUENCE DESCRIPTION:

GATCTATGAC AATGTATAGT CAATAAATGA TAGCAATTAT TTTAATTAT CAAAATAAAT 60
TGTTAGAGAT TCAAGTTAGC ATACAAAATG GAAATACATT GACAATCTAA AAACATACT 120
AAACATAAA CTCAAGACTT TATTCCTCTT CCTGTTCTAT CAAAATTGTG CCAAGTAAAA 180
AANTAAAANT TGTTCTTTTT ATTTCAAA 208

SEQ ID NO:1625

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01840

SEQUENCE DESCRIPTION:

GATCTAGATG GCAGATAGGA ACTTTNTTGT CACAAAAATA CTGGAGGAAA ATNTTGTA 60
AATAGACTTT TGGACACACA GCTGTTGGGG CTGCACTGAG CTGCAATTTT TAACATGGAT 120
TTATAACTTA ATGTTTCTGT TTATAAATA CTAATGATTT GCAATGTATT TTAAGTGCCA 180
ATTAACACAG ATGTTTATT CTTTCTGAAA 210

SEQ ID NO:1626

LENGTH:208

00707

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01841

SEQUENCE DESCRIPTION:

GATCCAGGAT TCTGGGAGGC TTCAGTTACC GCTGGCCGAG CTGAAGAACT GGGTATGAGG 60
CTGGGNCGGG GCTGGAGGTG GCGCCCCCTG GTGGGACAAC AAAGAGGACA CCATTTTTC 120
AGAGCTGCAG AGAGCACCTG GTGGGGAGGA AGAAGGTAA CTCACCAGCC TCTGCTCTTA 180
TCTTTGTAAT AAATGTTAAA GCCAGAAA 208

SEQ ID NO:1627

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01842

SEQUENCE DESCRIPTION:

GATCTCACAG CCACGAATTT AGAACTTCCT CCTATAGCAT TTTCTATCTT TTTTATGGCA 60
TTTATTTTAT TCTATCTTGT TATGATTACA TAATCTGTTT AATCCCCAAT TATATATTGT 120
AAATACCTTG AAGGAAAGGA GTCTTTATTA TCTTTGGTGC CTGGTGTTTA GTTTTAATAT 180
TTTATTAAAT ACATCCAAGG AAA 203

SEQ ID NO:1628

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01843

SEQUENCE DESCRIPTION:

GATCCACTGT TCAATCTGCA CAAGATTNGG GNNCCAGACA TGGGAGACTT CAGCTGCCTC 60
AGAGGACCGT GGACAGGGAA GGCAGCCTCG CATCCCTCTG TCCATGCCTG GNNTGACTTT 120
AATAACCAAG AGTTTTATTT TTGAATTTGT AGCTGTCGTT CACTTTTAC CCACCCATTC 180
AATAAACCTT ACAGAATTGC AAA 203

SEQ ID NO:1629

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01844

SEQUENCE DESCRIPTION:

GATCCAAGTA ACAGTGACTG CAGTTAGGGT CGAGAGCTTC TCCGAAGCAG CGGTCATGCA 60
GGCTTTTGTG TGGCTGACGC TTCCCTTTTT CACAACAGTA AAAAGCTATC AATGGGAAAT 120
TGTGGACTTT TCCCACCAGG GACTCAATGG GGACTCAATG TGCAATATTC AGTCAACATA 180
AAACTCTTTA AGAACTCCAA A 201

SEQ ID NO:1630

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01845

SEQUENCE DESCRIPTION:

GATCACAGAC CACGAGTGCC TTTCCCGGAC CTGGACGTTG CCTCCAGAGC AGGCACCANC 60
TCTTTCCCTC TCTAGACAGA AATATTTTGT TAAGGTTCTG GGGCAGGGAG GGAGCATGAA 120
GTACGAGGAA AACTTGAATT CCAGATTTTN AATGCAAAGT ATTTATCATT TCTACCAGAA 180
ATAAACGTTT TAAGTTTAA A 201

SEQ ID NO:1631

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01846

SEQUENCE DESCRIPTION:

GATCTTGAGG TCACTTCGTT TAGGTCATTN TCTCAACCCA ACCTCCCCAA ACTCTGGTTT 60
GAGCCAATAT GTGTTCTATT GTTCTCAGAG CACCAGCCGA CTGTACAACA ATTGTTATAA 120
AAATGTTTAT TGTTTACCAA AACCAGTGGG CCTCTTATCA AATGCTGCTT GGTAACAAAA 180
TCTATCACAG TTTTAATAAA AAGAAAAAA AAGGAAA 217

SEQ ID NO:1632

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01847

SEQUENCE DESCRIPTION:

GATCTGTTTT NNTTAAACAC TAACAGAATA ATTCTTTATA AATAGGTAAG CCTTACACTT 60
GTAAAGAAA TTTACCTCTA ATTCAGTCT CACTAATGTA AAATACTGGG ACTTAAGTAT 120
ACAATTCAGT CACTAACTGT ACAGTTTAT GTGGGGAACA ATTCATGCAG GCTACTGGAA 180
AATTAAATCT TATTACCAA 200

SEQ ID NO:1633

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01848

SEQUENCE DESCRIPTION:

GATCCNGGGC ATTTNCTCTG GGGAGACAGG CCTGAGGCCA GCTCGGNAGC CAAGCAGATT 60
CCAAACCACT ACAACCCTTG CCAAACACAG CCCACTCCAT TTNANACCGC CTTCTGAGG 120
AGAAAATGCA GACTCAGGGT TCCAGTAACC AGTGATGGAT TCACCCCATC TCCCAAATAA 180
TGGTTTACTT GTTTTACAAA 200

SEQ ID NO:1634

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01849

SEQUENCE DESCRIPTION:

GATCTTCTAA GAATTTTGCA AAATTCTAAA CAAATATAGA GATGGTATAT AGAATTCATA 60
TCTAGAAAAC TTTGATTTTA ATGTGAGCTT ATCAAATTTG TNCTGGCTTT TTTGGCACTA 120
AGGCAAAAAC ATGTTAACCA GAAATAATTT ATTCTTCATG TATGTAAAAAT ATTTGAGAAT 180
GTTTAGCCTT TTATTAGAAT TTTATTTGGA AAATATTTAT CTTTCTACAC ATTTTACACT 240
TATGTNCCTT TGCTTATAAC CCAATTTCTT AACTTTTTTG TTAATAAGC AAATATCAAT 300
NATGTTTTAT TATCTAATAA AGTGAAGAT TCN 333

SEQ ID NO:1635

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01850

SEQUENCE DESCRIPTION:

GATCGAATGG CTTTTGCGAG CTAACACTA TGTGTAGACA GGTTTTATAT TATAAAGTAT 60
GCATTCTTAT CACCTAGTAT ATAGTTAGTT TGTAGAGTGA TTTCCCCCA GTTCTTGAA 120
CATGGTATCT TCACATCTTG GACCTTGGTC AGTTGTGCTA TTCATTATTA AACACTAAAA 180
CTTTGGCGGT TCTTGCAAA 199

SEQ ID NO:1636

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01851

SEQUENCE DESCRIPTION:

GATCTGGATG TTGAAAAGAG TCTGGCACCT CCTCCNTCTC TCTTGCTCAC ACTCTCACCA 60
CGTGATATGC TGCCCTCCTCC TGTGCCTTCC ACCATGAGTA NAAGCTTCCT TANNCTCTTN 120
TNAGAAGCAG ATGCTGGCAG CATGATTCTT GTACAGTCTG CAGAACAGTG AGCCAAATAA 180
ACCTCTTTTC TCTAAA 196

SEQ ID NO:1637

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01852

SEQUENCE DESCRIPTION:

GATCCAAGTA TTTCTNCATC AAGCAGTTTT TAAAAGGAAA ACGATAATAA TCAGTAGGCT 60
CCATGGAAGC CTTTNCCTTA ATAGCTATGT GCCAAATACT TTNATCTNGT GTGACAGTCA 120
TGTCAGAGTG AAATCTCTCA GGAAAAGTGT AACTAGTAGT TACAAAGTAA ATAAAGGATT 180
TCATTTTAAG GTGAAA 196

SEQ ID NO:1638

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01853

SEQUENCE DESCRIPTION:

GATCCTCCTG CAGGGCTAGG CGGATTGTTT TGGATTTCTT TTTGTTTTTC CTTTtagTTT 60
TCCATCTTTT CCCTCCCTGG TGCTCATTGG AATCTGAGTA GAGTCTGGGG GAGGGTCCCC 120
ACCTTCCTGT ACCTCCTCCC CACAGCTTGC TTTGTTGTA CCGTCTTTCA ATAAAAAGAA 180
GCTGTTTGGT CTAAA 195

SEQ ID NO:1639

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01854

SEQUENCE DESCRIPTION:

GATCTTAGCT TTGATAAATG ACTGANGCTG GAGAAGCCGT GGTGAAGTC AGCCTACACT 60
ACAGTGCACA GTTGAGGAGC CAGAGACTTC TTAAATCATC CTTAGAACCG TGACCATAGC 120
AGTATATATT TCCCTCTTGG AACAAAAAAC TATTTTTCCT GTATTTTAC CATATAAAGT 180
ATTTAAAAAA CAAA 194

SEQ ID NO:1640

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01855

SEQUENCE DESCRIPTION:

GATCTGAGTA ATTAGCAGGT ATGATGCTGG GACTGGAAAA TAGAAAGTAA TAACTAAAGG 60
GTAAATGTGC AACGTTATTT TTTGGCCTTG TTCATAATTT TATGTTTTCA GTGGCNTGTG 120
TACATATAGA ATTGTAAAG TTGTCATTTT CAATATTTAT ATTAGAAAAA TTATTTAGAT 180
ACTTTATAAT TTAAACCGGC ATTTTAAATA ATGACACTTG CATTTATTGT ATTGTAATAA 240
ATTTCACTTT TAACTTTAAA AGTTTAAA 268

SEQ ID NO:1641

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01856

SEQUENCE DESCRIPTION:

GATCTCTGCT CAGAGAAGTG CAGGGGGAGC CTTCCAGCTC ACTCTCCCTG AGGACTGGCT 60
TGACAGGGGC TATGGGTTTG CTTTGGTGTT GTTTTTAAAA AAAGAAAATA TATTTTTTTG 120
AAAAAACGAC TGCCCATCCC GGGTCCTTTC CCTGATGGGT TGGGGCAGTT ACCTGGTTGC 180
TGTTTTAATT AAA 193

SEQ ID NO:1642

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01857

SEQUENCE DESCRIPTION:

GATCACATCA CTCCACCCCT GCCAGGCCCC AGGTTAGGAA TAGTGGTGGG AGGAAGGGGA 60
AAGGGCTGGG CCTCACCCT CCCAGCAACT GAAAGGACAA CACTATCTGG AGCCACCCAC 120
TGAAAGGGCT GCAGGCATGG GCTGTACCCA AGCTGATTTC TCATCTGGTC AATAAAGCTG 180
TTTAGACCAG AAA 193

SEQ ID NO:1643

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01858

SEQUENCE DESCRIPTION:

GATCCTTAGT ACAACATGTG AAAGAAGATA TGTTGTCTTT ACTCACAGTG GAGGCATTTT 60
TCTAGCTGTG TTTGATTGG CTTCCCTATA GATTCAAGAC CCATAACTCT TGTTCTCACT 120
CATCTGCTAT GCTGCTGATA AGGACTTTCA GGTCAACAGC TGTAAGTCT AAATGAAGTT 180
AATACTCTGG AAA 193

SEQ ID NO:1644

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01859

SEQUENCE DESCRIPTION:

GATCTAGGCA AACCTTTATA AAGTTGCAGT ACCTAATCTG TTATTCCCAC TTCTCTGTTA 60
TTTTTGTGTG TCTTTTTTAA TATATAATAT ATATCAAGAT TTTCAAATTA TTTAGAAGCA 120
GATTTNCCTG TAGAAAAACT AATTTTNCCTG CCTTTTACCA AAAATAAACT CTTGGGGGAA 180
GAAAAGTGGA AA 192

SEQ ID NO:1645

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01860

SEQUENCE DESCRIPTION:

GATCTGTCTG TTGCTTGTTT AATATATTTT TTTTATGACA TTAAGTAAAG TTTAAAAGGG 60
TTTTNTATCC ACTGTCAATT TCAATTGGAT AACATTTTGT CAAGNTTTTT TTTTCCTGAT 120
TATTTGATGC TAGCTGGAAT TCAAGAAATG GCATTGACCT TATTCAAATA AAGAAATATT 180
TTAGTAAA 188

SEQ ID NO:1646

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01861

SEQUENCE DESCRIPTION:

GATCAAAAAC TAATTTGGGA TATGTATGGG TAGGGTAAAT CAGTAAGAGG TGTTATTTGG 60
AACCTTGTTT TGGACAGTTT ACCAGTTGCC TTTTATCCCA AAGTTGTTGT AACCTGCTGT 120
GATACGATGC TTCAAGAGAA AATGCGGTTA TAAAAAATGG TTCAGAATTA AACTTTTAAT 180
TCATTCGAAA 190

SEQ ID NO:1647

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01862

SEQUENCE DESCRIPTION:

GATCAGTTGG GTGCTATGTG CTCAGCTTTC CTAAGTGCAGC TTCATTTAAT GCAGAGTGGT 60
GTTTGAATTT GGCTTAGATG GGCTGGCAGG CATGATTTTA AAAAATGTAA TCATCAGTAA 120
GAAGTACTTC CATGTTAAAG ATGCAAAAAA AAAAGTCTTC ATTAATAATTN CTATTTAANG 180
AAA 183

SEQ ID NO:1648

LENGTH:361

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01863

SEQUENCE DESCRIPTION:

GATCCAAACA AATACACATT CTGTNTTTTA GCTCAGTGTG TTCTAAAAAA AGAAACTGCC 60
ACACAGCAAA AAATTGTTTA CTTTGTTGGA CAAACCAAAT CAGTTCTCAA AAAATNACCG 120
GTGCTTATAA AAAGTTATAA ATATCGAGTA GCTCTAAAAC AAACCACCTG ACCAAGAGGG 180
AAGTGAGCTT GTGCTTAGTA TTTACATTGG ATGCCAGTTT TGTAATCACT GACTTATGTG 240
CAAAGTGGTG CAGAAATTCT ATAAACTCTT TGCTGTTTTT GATACCTGCT TTTNGTTTCA 300
TTTTGTTTTG TTTTGTAATA ATGGTAAANC TTCAGAAAAT AAAATGTCAG TGTTGNNTAA 360
A 361

SEQ ID NO:1649

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01864

SEQUENCE DESCRIPTION:

GATCAGGACC TGGGGGCCTA CAGTTCTGCC AGGAAGTGCC TGGCCAAACA GAGGCAGAGG 60
ATGCTGCAAG AGAGAAAAGC TGCAAAANAG GCCGCCGCTG CCACCTCCTG AGGCAGNTGT 120
GGGTGCCCCCT GCTGTGTGGC TCTGTATGAC TGTTGCTGAA ATATAAGGCC CTGCAACCTG 180
AAA 183

SEQ ID NO:1650

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01865

SEQUENCE DESCRIPTION:

GATCTCAGCA CAAGCAGGGG AGCAGCTGGG GGAACACAGC TTTATGTAAT TACCTCTGTT 60
CAATATTTAG CAAGTTGCAT TGTAACATTG TAACTGTTTG TTTCTCCTTG GATGATGAGC 120
TACCCCAAG AAGGGGTCAT ATCAGATTGG GTCTCATTAA AATGTCTGAT GAATGAAA 178

SEQ ID NO:1651

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01866

SEQUENCE DESCRIPTION:

GATCTATGGC TAAAAAATT TGTTTCTGTG ACAATNTTTG TAAATCTAGC CAATAGAGTC 60
ATTACAGAA GAAAAATNAG CATGTAATAA TACAAGAACT GTTCCCCCT CAAAACCTGA 120
ACCTGAATTA TTTGTAAAA CTGAAATTTA ATGATTAAAG AGAAGCCAGA ATTGTAAA 178

SEQ ID NO:1652

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01867

SEQUENCE DESCRIPTION:

GATCTGGAGC TAATAATGAC TGAGATGGAG ATATCTCGAG CAGCAGCAGA ACGCAGTTTG 60
CGGGAACACA TGGGCAACGT GGTAGAGGCG CTTATTGCC TAACCAACTG ATGCGTGCTT 120
TCTCAATAT ACCTACTGGA TTAATTTATG GCAATAAAAT TTTTTTTGT CTTTTTCAGT 180
TTTATCAA 189

SEQ ID NO:1653

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01868

SEQUENCE DESCRIPTION:

GATCTCTGCT CTGCCCTCTC CCAGATTGGT GGGGAGGGAG GGCGGGAGGT AGATATAGGC 60
CTGTCCTTTT TAGCAATGTG ATTCTTGTTG TTGATTCTCT CTCTGGAGTT CATGTGCTGC 120
CTCANNNGAC TCTGATTTTA TATTTNAGAA AAATAAAGGC GTTCAATCTG CAAA 174

SEQ ID NO:1654

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01869

SEQUENCE DESCRIPTION:

GATCAGGCTC ATCTCATCTG CACCAACTGC TCTACCTGTT AGATGGAGAC CTTGCNTCAT 60
GAATTTCTCG AAATGCTCCT GGAACCTATT TATATGCCTC AAAATCCTCT AAATCATT 120
ATAGTAACCC ATAGTTTTAA TTTTATAAAT AAACGTATTT ATTAAATCTT AAA 173

SEQ ID NO:1655

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01870

SEQUENCE DESCRIPTION:

GATCTCTAAT TTAAAGAAAC AGTTTTTATA TACCTAGAAT GAAGATTCTG TTAAAGCGG 60
TTTTGGTTAA CTTGGTTCTT GACATTTGCC TAAATNTTN TTGGATTGGG ACTAAAATGT 120
NCTATTAGCC AATGAATAAC GTCCAAGTAA ATTTNTGTTT TATTTGGGA AA 172

SEQ ID NO:1656

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01871

SEQUENCE DESCRIPTION:

GATCTCAAAG GAGTCTGAAA TATCATATTT CTGTGTGTGT CTCTCTCAGC CCCTGCCCAG 60
GCTAGAGGGA AACAGCTACT GATAATCGAA AACTGCTGTT TGTGGCAGGA ACCCCTGGCT 120
GTGCAATAA ATGGGGCTGA GCCCCCTGTG TGATATTGAA AGGGTAAGAA A 171

SEQ ID NO:1657

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01872

SEQUENCE DESCRIPTION:

GATCGNCATT ATCCCCAGNA AAAAGCTCCG CAACAAGATA GCAGNTAATG TCACGCATCT 60
GATGAAGCGA ATTCAGAGAG GCCCAGTAAG AGGTATCTCC ATCAAGCTGA NCGAGGAGGA 120
GAGAGAAAGG AGAGACAATT ATGTTCTGA GGTCTCAGCC TTGGNNCCNN N 171

SEQ ID NO:1658

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01873

SEQUENCE DESCRIPTION:

GATCAAAGAC ATCCTCATCC AGTATGACCG GACCNNCTGG TAGCTGACCC TCGTCGNTGC 60
GAGTCCAAAA AGTTNGGAGT CCTGTGCCCC AGTTCGTACC AGAATCCACC GTAAGCCATC 120
GGNCTAAAC TTAATTNATA ATAACAGTTT TGAGGGATTT AAAAGTTCAA A 171

SEQ ID NO:1659

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01874

SEQUENCE DESCRIPTION:

GATCAAAAAT CCAAGGAGAA TGGTGCCAGT GTATGATAAA ATCCATGTAG TGATGAGGAA 60
TGGTGTTAAA TAATGTAATA TATAANANTC ATGATATANG ANTGTTTGAA GGTGATGCAT 120
GTTTGATTTT NGTAGTATAA NTGTATTNA GTTCAAATGA TGTATAANGN 170

SEQ ID NO:1660

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01875

SEQUENCE DESCRIPTION:

GATCCTCGCT CCGTTGCACG GCGCCNTAA GTTATTGGAC TATCTAATAT CTATGTATTT 60
ATNTCGCTGG TTCTTTGTAG TCACATATTT AATAGTCTTA ATATCTTGTT TTTGCATCAC 120
TGTGCCCAT GCAAATAAAT CACTTGGCCA GTTTGCTTTT CTACAAA 167

SEQ ID NO:1661

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01876

SEQUENCE DESCRIPTION:

GATCTGGGCG ATTCTGAAGC CATGCCATTT TTAACCTTAT GTCTGCTAGA AAGTGTTGTA 60
GTTGATTGAC CAAACCAGTT CATAAGGGGA ATTTTTTTTA AAAACAACA AAAAAAAAC 120
CATCCAAGGN NGGGTTTNTG ATTAAATTTT GTGGNGTTAC CAGTAAA 167

SEQ ID NO:1662

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01877

SEQUENCE DESCRIPTION:

GATCTTCCCC AAGAGGGACT GGGGTTTCTG GGGTCCATTC TCTGAGTCAG TGGTTATTTG 60
AAAATTTGAT TTTGATTTTA TTTTTTCTCT GTAAACTTCC AAGCTGGCTT TTCCCATTTT 120
AATTCCTGTG ATTTATGCCA ATAAAGTTTG CCCATGATT TCAAA 165

SEQ ID NO:1663

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01878

SEQUENCE DESCRIPTION:

GATCCCTNCC TTGGTGGGCA GTTCTGCCTT CCAAGGAAGA AGGGGAAGAA AAGGACCTGT 60
GGGTGGCTCA GGNCNAAGCA GACCCCGGGC TCCACCCAG CCCGNCCAG GNTGCTGCCA 120
GTNCACACTT TTACAAATTT AATATAAAGC AAGTCCAGTN TAAA 165

SEQ ID NO:1664

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01880

SEQUENCE DESCRIPTION:

GATCAGGCTG CTGAGGGAAT AAATTTAATC AAGGTCTTTG CAAAAACAGA AGCACAGAAG 60
GGAGCCTATA TAGAACTAAC ACTGCAGACT TATCAAGAAG CACTCAGTCG CCATTCTGCA 120
GCTTCCTAAA AATATTTTAA AAATACATTT ATTTTACTAA A 161

SEQ ID NO:1665

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01881

SEQUENCE DESCRIPTION:

GATCAGTCCA TCCCAGAGGG ACCGGAGTTA TGACAAGCTT TCCAAATATT TTGCTTTATC 60
AGCCGATATC AACACTTGTA TCTGGCCTCT GTGCCCCAGC AGTGCCTTGT GCAATGTGAA 120
TGTGCGCGTC TCTGCTAAAC CACCATTTTA TTTGAAA 158

SEQ ID NO:1666

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01882

SEQUENCE DESCRIPTION:

GATCGTGTAT TGAGATTTCT TAAATAATGC TTCAGATATT ATTGCTTTAT TGCTTTTTTG 60
TATTGGTTAA AACTGTACAT TAAAATTGC TATGTTACTA TTTNTACAA TTAATAGTTT 120
GTCTATTTTA AAATAAATTA GTTGTTAAGA GTCTTAAA 158

SEQ ID NO:1667

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01883

SEQUENCE DESCRIPTION:

GATCTTTGTT AGTTGCATAT TATATTTTCA GTTTTATCTT CTTGGTGAAT TGACCCTTTT 60
ATCATTATGT AATTCCCCTA TATTTATATC TTTATATTTA ANATAGGTTT CCTTAACATT 120
TGAGAAGTAA AANTAAAATA AAATGTAATA GCAAA 155

SEQ ID NO:1668

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01884

SEQUENCE DESCRIPTION:

GATCACTCTG GGCTCACTTG CCTGCCTAAT GGTCATCTCC CCAGTAGACT GTAAGCTCCT 60
TGAGGGCAAG GATTGTGTTG GAATTTTGT ATTAACAGTG CCTGGCTTGG TGCCTGGCAC 120
CTAGAAAGCA CTCAATAAAT GTTTGTTTAA TGAAA 155

SEQ ID NO:1669

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01885

SEQUENCE DESCRIPTION:

GATCAGATGC TTGAAATTTA ACACTTTTCA CTTGGTTCTT ATACTGAATG CCGACTCTGC 60
TCTGTGTTAG AGATATGAAA TGGTGTGTTGA TACTGTTGA GACATTATGG AGAGATTTAA 120
TTATTTGTAA TAAANGNTTT GCTGCAGTCT GAAAACGTAA A 161

SEQ ID NO:1670

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01886

SEQUENCE DESCRIPTION:

GATCTATTGT AATGTGTTAT TTNGGCTGAN GTATGTNAAG AAAATACTAC CTTACAAAGN 60
TATGTATTNT CAAAAGGAAA TACATATCAG AAAGTTTAA AGGGCCAGTG GGTGATACTG 120
AAGTTGTCGG GATGGATGGT GTCTATCTGG NNN 153

SEQ ID NO:1671

LENGTH:444

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01887

SEQUENCE DESCRIPTION:

GATCTAGAAG TTTTACTTTT ATAAAGATGG TGTCCGGAAG ATGTTGCTAA TGTATTTTAC 60
TTCAACATAG GGAACAAACT TTTTAAGTAT ATTAATAAAC CTGTATGGTT AGTTTTTAAC 120
AGTTTTTTAA AATAAACTAT GGATATGACA AATATTCTGT GTTTTACTAA GTGCTTGGAT 180
AGGCTTTCTA ATTTNGTATA CGTGCTAGAG TTAATTATTG ANCATTTTAA TCCAAATTTA 240
GTTGTAAGTC TGTTTATACT ACTGATTGCT CATTCGTTTA AATGATATTN TNNNGTAAAA 300
GTCATAACCA ACATATGANC AGACAGATTT ATGTCTTTAA ACACAGATTG TNAGCTATAG 360
GTTTAATCTG ATACCAGTTG CTGGAAGGTT GCCATTTGGT TTTTCTNAAA ACCTATACCN 420
CTAAAACTTT CTTTNAAGGT TAAA 444

SEQ ID NO:1672

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01888

SEQUENCE DESCRIPTION:

GATCAGCAGC CCTCGCAATG TGCTCAGCGA GTACCAGCAG AGGCCGCAGC GGCTGGTGAG 60
CTACTTCATC AAGAAGAACT GAGCAAGGCC TGAGCGCTGC CTGAACTCCG AAGNCCTGTG 120
TGATGCTTTC CATTAAAAAN NATGTCCAA A 151

SEQ ID NO:1673

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01889

SEQUENCE DESCRIPTION:

GATCCAGATG ATAAACCACT GAACTATGTC AAAAGCACTC TCAATATTAC ATTTGACAAA 60
AAGTTTGTGTA CTTTNCACAT AGCTTGTGTC CCCGTAAAAG GGTTAACAGC ACAATTTTTT 120
AAAAATAAAT TAAGANGTAT TTATNGGAAA 150

SEQ ID NO:1674

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01890

SEQUENCE DESCRIPTION:

GATCCGNCCG TCTCTGCCTT CCAAAGTGCT GGGATTACAG GCGTGAGCAC ATCTGCCCGG 60
CTTATTTTTT TTTATGTTTT TNCTTCGTAA GAGGTTCTGT TGAGCAGTGA TTTGCAACTC 120
TTGCTGACGT TGCTGGGGAA GCTTTAAA 148

SEQ ID NO:1675

LENGTH:568

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01891

SEQUENCE DESCRIPTION:

GATCTACCCC AGGGAGAATC TGAGACATCT TGCCTACTTT TCTTTATTAG CTTTCTCCTC 60
ATTCATTTCT TTTATACCTT TCCTTTTTGG GGAGTTGTTA TGCCATGATT TTTGGTATTT 120
ATGTAAAAGG ATTATTACTA ATTCTATTTT TCTATGTTTA TTCTAGTTAA GGAAATGTTG 180
AGGGCAAGCC ACCAAATTAC CTAGGCTGAG GTTAGAGAGA TTGGCCAGCA AAAACTGTGG 240
GAAGATGAAC TTTGTCATTA TGATTTTATT ATCACATGAT TATAGAAGGC TGTCTTAGTG 300
CAAAAAACAT ACTTACATTT CAGACATATC CAAAGGGAAT ACTCACATTT TGTTAAGAAG 360
TTGAACATG ACTGGAGTAA ACCATGTATT CCCTTATCTT TTAATTTTTT TCTGTGACAT 420
TTATGGTCTC ATGTAATTTG CATTACTCTG GTGGATTGTN CTAGTACTGT ATTGGGCTTC 480
TCGGTAATAG GTTATTTCCA TATACTATAA TTGGNAATAT TTTTGTACCA ATGGTTATAA 540
CNCTAGGGGT NTA AAAACCA GGTCTG 568

SEQ ID NO:1676
LENGTH:146
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01892
SEQUENCE DESCRIPTION:
GATCTCTAAG GTATTATGTT TGCCTTCTCT TAGTTATTTT TGGGTTGTCA CAAAGCTCAG 60
TATCATGGTT TGACAGAAGC AGTTATGTGA ACTTTTATGT TAGGACATTA CTAAATAAAG 120
AATTCCCTAG CTGCTTATAA AGTAAA 146

SEQ ID NO:1677
LENGTH:144
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01893
SEQUENCE DESCRIPTION:
GATCCATTCT CCNTTTANTT CCCCCACCCT CCTCTCTNGG ATATGGTTGG NTTTGGCTCA 60
TTTCACAATC AGCCCAAGGC TGGGAAAGCT GGAATGGGAT GGAACCCCT CCGCCGTGCA 120
TCTNAATTTN AGGGGTCATG CNCN 144

SEQ ID NO:1678
LENGTH:151
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01895
SEQUENCE DESCRIPTION:
GATCGAGATG AGCTTTAAAA ACTTGAAAAA CAGTTTGTA A GCCTTTCAAC AGCAGCATCA 60
ACCTACGTGG TGGAAATAGT AAACCTATAT TTTCATAATT CTATGTGTAT TTTATTTTG 120
AATAAACAGA AAGAAATTTT GGGTTTTTAA A 151

SEQ ID NO:1679
LENGTH:140
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01896
SEQUENCE DESCRIPTION:
GATCTTGATG GTCGCTGCAG AGTAACTTCA GCGCTGAGTT CGTTTGAAAC CTTGCGTTTG 60
TTAAGATTCA GAATAACCA TTTGCTTTGTC TGTTAAATCT CCCGATTCT GTTAGGAAAA 120
TAAAGCCTC ATTTCTTAA 140

SEQ ID NO:1680
LENGTH:139
TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS01897

SEQUENCE DESCRIPTION:

GATCACTATG TAGGCAATGC TGGATACTGG NCTGTTATTT ACACATTTGT ATCACCTTTT 60
ATTCATAAG ATAGCATTGT CAGANTAATT TAGTATTTCA ACATAATCAA CAAGTAAAAT 120
AAAATTAATG AGAATGAAA 139

SEQ ID NO:1681

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01898

SEQUENCE DESCRIPTION:

GATCTCCACA TTCAGGTTTC CTGATGCACT TTNCGACTCT TTGGGCAACC TCTGGACTCC 60
TTGTNCCAG GGTCCACATT TAGTTTTATC TTTACTGCAT TGCTTTTATG AAAAAGAATA 120
AAATTGGATG AAACAGAAA 139

SEQ ID NO:1682

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01899

SEQUENCE DESCRIPTION:

GATCAGTTAA TTTGTATGTA GCAGTGTATG CTCTCATATA CAATNACTGA CCTATGCTCT 60
AAAACATGAA TGCTTTGTTA CAGACCCAAG CTGTCCATTT CTGTGATGGG TTTGAATAA 120
AGTATTCCCT GTCTTAAATG AAA 143

SEQ ID NO:1683

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01900

SEQUENCE DESCRIPTION:

GATCGAATCA CCTGAATGTT CTATGTANTG TAAAATATTC TTTCTTGCT TTCTTGTTGTT 60
AAGGTATATA TTCTATTTGT ATGGAATTCT TATTCAAATA CAGTTCTATT AAAGAGTATA 120
CTCCTATTGG ATGAAA 136

SEQ ID NO:1684

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01901

SEQUENCE DESCRIPTION:

GATCTCAGCG GCATTAAGCT GTGCCTGAGC GAGTTTGTAG TGACTCACTG CACAGCACCN 60
CCAGACTAGC ATGTGGTTCT ATATTTGTAA AGTTATTGGG ATAAGAAACA ATTAAACAGT 120
TTGTAGTAAA CACAAA 136

SEQ ID NO:1685
LENGTH:136
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01902
SEQUENCE DESCRIPTION:
GATCTTCTAC TTCCTNTGG GGAGGGGAGT GACAGGTCCA CACACCACAC TGGGTCACCC 60
TGTCTGGAT GCCTCTGAAG AGAGGGACAG ACCGTCAGAA ACTGGAGAGT TTCTATTAAA 120
GGTCATTTAA ACCAAA 136

SEQ ID NO:1686
LENGTH:135
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01903
SEQUENCE DESCRIPTION:
GATCTTTAAA AAAATTTTCC ATATGTCAAA GTGTAGAGAT GTTCTAGCA GCATTTATCT 60
TGTCATCTAT AGATTGAACA AAAAGTGGTA GCTGTNAAAT TGTGATTAT AATAAATACA 120
TATTTGGTCT TCAAA 135

SEQ ID NO:1687
LENGTH:135
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01904
SEQUENCE DESCRIPTION:
GATCAGCAGT TCCAGCCCCT ACGCTNGCTG GGGGCGCAAC CACCCCTTCC TTAGGTTGAT 60
GTGCTTGGNA AAGCTCCCTC CCCCTCCTC CCCAAGAGAG GAAATAAAAG CCACCTTCGC 120
CCTAGGGCCA AGAAA 135

SEQ ID NO:1688
LENGTH:136
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01905
SEQUENCE DESCRIPTION:
GATCTTCATC TGTAGCCAAG AAGAGAGCAT TAAACCCAAG ANCATTGTGG AGAAGATTGA 60
CTTTGACAGT GTGTCCAGCA TCATGGCCTC CTCCCAGTAA CTTCAGGTGT TTAATAAAGA 120
TGTGTTGACT CAGAAA 136

SEQ ID NO:1689
LENGTH:134
TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS01906

SEQUENCE DESCRIPTION:

GATCTTAATG TTTCAAAGGA GTGCAGCCCT TCACAGCCAT CAGATATGAG GGCAGTGTTC 60
TGTCTGGTGT TGTAGCCATC TCAAGAACAA ATCAACAGCA ACAAAGAGA AAGAATAAAT 120
TTTTAAAT TAAA 134

SEQ ID NO:1690

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01907

SEQUENCE DESCRIPTION:

GATCTGTGAC CCTGGGCGCT GAAAATGGGA CCCAGGAATC CCCCCGTCA ATATCTTGGC 60
CTCAGATGGC TCCCAAGGT CATTATATC TCGGTTTGAG CTCATATCTT ATAATAACAC 120
AAAGTAGCCA CAAA 134

SEQ ID NO:1691

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01908

SEQUENCE DESCRIPTION:

GATCTCTACT ACCACAAGGA AAATAGTTTA GGAGAAACCA GCTTTTACTG TTTTNAAAA 60
ATTACAGCTT CACCCTGTCA AGTTAACAAG GAATGCCTGT GCCAATAAAA GGTTCTCCA 120
ACTGAAGTC TAAA 134

SEQ ID NO:1692

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01909

SEQUENCE DESCRIPTION:

GATCAGTGTG GAGGACCCGC CCCAGCGCAC GGCCGGCGTC AAGGTGGAGA CCACTGAGGA 60
CCTGGTGGCC AAGCTGAAGG AGATTGGGCG GATTTGAGCC CCTCCAGAG ATGGCAATAA 120
AACTGACTCT CAACATCAAA 140

SEQ ID NO:1693

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01910

SEQUENCE DESCRIPTION:

GATCTAACCT TTGANGCTTT AAAAAAGGAG AAAGAGGGTA GGGGTGGGAA ACTGGCATAAC 60
TGTGTGTATA GCACTGCCGA TTGGCTAGGC CACTGTGTCT CTGCTACAAA TTAAAGAAAT 120
CCTAAAAGTT AAA 133

SEQ ID NO:1694
LENGTH:133
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01911
SEQUENCE DESCRIPTION:
GATCGCGAAT AAAAATCAAC AAATGTGAAA GCCCAGAAAA ATATATTCGT ATTTCTGGTT 60
TTGCTGGATT TTTACATTTT TATATAATAA AAATGNTATT TTGAAATAAA GATTATGCTG 120
ACTCAATGC AAA 133

SEQ ID NO:1695
LENGTH:131
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01912
SEQUENCE DESCRIPTION:
GATCTATTGC AGATATTTGA TG TAGTTTTT TCTTTTAAAT TAATCAGAAA CCCCACTTCC 60
ATTGTATTGT CTGACACATG CTCTCAATAT ATAATAAATG GGAAATGTCG ATTTTCAATA 120
ATAGACTTAA A 131

SEQ ID NO:1696
LENGTH:130
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01913
SEQUENCE DESCRIPTION:
GATCCGCCCC GCTCAGCAGA ATTCACGCTC CTGTATGCCT CAGCCCCTCG ATATAACTCC 60
ATCGGATTCT AGCAGCCTGG TATTCTAGCA ATAAAACCCA AGGCCTGAGA AACAGGGGCC 120
ATCCTGCAAA 130

SEQ ID NO:1697
LENGTH:130
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01914
SEQUENCE DESCRIPTION:
GATCAGACTG TCACTTTATA GTTTTTCTAT ATAAAGATTA TATAGTTGCA AACAAAGGTT 60
GTGAAATTC CCTTTTGTG TTTTNNACTT TTAATTAATA AAAGTACATT GTTTTCATAG 120
CAAACTTAAA 130

SEQ ID NO:1698
LENGTH:130
TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS01915

SEQUENCE DESCRIPTION:

GATCGAAGCT ACCGTAATGT GTTCTTGAGG TCAACATGTT TTGTGGAAGT CACTGTATTT 60
GCCCCNTTAT GTCAATTACC TATTATAAAC CGAGAGAAAT GGGAAAATTA AAAACCTGTT 120
TTGAATTAAA 130

SEQ ID NO:1699

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01916

SEQUENCE DESCRIPTION:

GATCCCTTGT AAACATGAAA TCATTCCATG GATGGCTGCC TTATAATTTT GTCTCTTTCC 60
ACTTTAATTG TGAATGGTTA.AAAAAATGCT GTTTTCTGAT ATTAAATTTT TATTAGTGCA 120
TACCTTAAA 129

SEQ ID NO:1700

LENGTH:82

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01917

SEQUENCE DESCRIPTION:

GATCTGTACC TAGTACCCCT CCCATCTACT GATTTGTTTG TTTTGTAAAC CAAACACATT 60
TTCAGATAGA AGGAGCCTTA AA 82

SEQ ID NO:1701

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01918

SEQUENCE DESCRIPTION:

GATCCCCTAT TCCCTCCACA ATAACAGAAA CACTCCCAGG GACTCTGGGG AGAGGCTGAG 60
GACAAATACC TGCTGTCACT CCAGAGGACA TTTTTTTTAG CAATAAAATT GAGTGTCAAC 120
TATTTAAA 128

SEQ ID NO:1702

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01919

SEQUENCE DESCRIPTION:

GATCTACAAT NAAGCCCTCA AGGGCTGAAA ATAAATAGGG AAGATGGAGA CACCCTCTGG 60
GGGTCCTCTC TGAGTCAAAT CCAGTGGTGG GTAATTGTAC AATAAATTTT TTTTGGTCAA 120
ATTTAAAAAA AAATAAA 137

SEQ ID NO:1703

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01920

SEQUENCE DESCRIPTION:

GATCTGAGGA GGAAATGTGA CGCCGGACGC TTCCNTGTNT TTGACCTTTT NAAAGGANGA 60
GGAAGTTCAC CGACANTACC CATCACCAC AAAAGTCTCA CTTCTTGAA GATTTGTGTT 120
AGGCTGNN 128

SEQ ID NO:1704

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01921

SEQUENCE DESCRIPTION:

GATCTGGCGT NCTACTATGA GGCTTCTTTT GACCTCATTN NTGTGGTNGC CGGCGTAGCC 60
AGACCATCCT ATACTGTGAC TACTTCTACT NGTACATTAC AAAAGTACTC AAGGGAAAGA 120
AGCTCNN 127

SEQ ID NO:1705

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01922

SEQUENCE DESCRIPTION:

GATCATAGCT ACACTGTATG TTTAGGTGGT GTGAAATNAT TTATAATCAC AGCTTGAAC 60
GTGTTTGCTT GGTACTGTCA TAGTGATTAC AAATTTTCATG GAATGCGAAG AGCAACAATA 120
AATAAAAAAT ACCACTCACC CTCAAA 146

SEQ ID NO:1706

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01923

SEQUENCE DESCRIPTION:

GATCAAAAAG GACTGAACCC CCACTATCAT AATCCATACA TTCATTTCCA TGTGTTTGA 60
CTAGCAGTGC ATATATGAAT GAATATGGTA ATTAATCTTA CCTATAAGAA CCAAATACTT 120
TAATTATATT AAGATAGTGA ATAAAGATGT ATAATATTTT NATTAATACC TTGAATATAT 180
TCAGTGGATT GAATGTGACT TCATAACTGT ACTACGATTG TATTAATAAATA TTTCTGGAAA 240

SEQ ID NO:1707

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01924

SEQUENCE DESCRIPTION:

GATCTTATGA AGGAAGATTT GTGACCCTAC GTATATATAT ACACACACAT ACATATATAT 60
ATATATCCCG AACCAACANC GGGACTTTGT TTATATTGCA AATAAATATT ATTTTCCTT 120
TAAA 124

SEQ ID NO:1708

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01925

SEQUENCE DESCRIPTION:

GATCCCCTTT CTCTATGTCG GGACACTCAT TAGCAAGAAC TTNCTGCTC TACTNGAGGN 60
ACATGACATT TTTGTTCCAG AGGATGATGA TGATGATGAC TAACAGGAAT TACAGAANGN 120
NGAN 124

SEQ ID NO:1709

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01926

SEQUENCE DESCRIPTION:

GATCCGAGCA GTCCTCTGCC CGCCTCCCGT GAAGAAGAGG AAGAGAAAAT GCCTGCTGTT 60
GTAAATGTCT CAGCCCCTCG TTCTTGCTCC TGTCCTTGG AACCTTTGTA CGCTTTGCTC 120
AAAAAAAAAC AAAAAAAAAA AACAAA 146

SEQ ID NO:1710

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01927

SEQUENCE DESCRIPTION:

GATCCTGTGT AGAAGCTGTT CTCATTAAAC ACCAAACAGT TAAGTCCATT CTCTGGTACT 60
AGCTACAAAT TCGGTTTCAT ATTCTACTTA ACAATTTAAA TAACTGAAA TATTTCTAAA 120

SEQ ID NO:1711

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01928

SEQUENCE DESCRIPTION:

GATCTGCGCC TCTCAGTGCC TTTTGAGGGG TTCCCATCAT CCCTCCCTGA TATTGTATTG 60
AAAATATTAT GCACACTGTT CATGCTTCTA CTAATCAATA AACGCTTTAT TTAAAGCCAA 120
A 121

SEQ ID NO:1712

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01929

SEQUENCE DESCRIPTION:

GATCGGGGCA AGAGAAGGCT GAGTACGGAT GGGAAACTAT TGTGCACAAG TCTTTCCAGA 60
GGAGTTTCTT AATNAGATAT TTGTATTTAT TTCCAGACCA ATAAATTTGT AACTTTGCAG 120
CGAAA 125

SEQ ID NO:1713

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01930

SEQUENCE DESCRIPTION:

GATCAGCCCA TCTCAGCTTG CTGTTTCAAT CACAATGGAA ACATATTTGC ATACGCTTCC 60
AGCTACGACT GGTCAAAGGG ACATGAATTT NATAATCCCC AGAAAAAAN TTACATTTNC 120
CTGCGTAATG CAGCCGAAGA GCTAAAGCCC AGGAATAAGA AGTAGTGGCT GGAGACTCTG 180
GCTCAGCCAG AGTTGTTTCT CTCCANTCTG CCTCATCTCT GTACGANTTT GGGTCCCAGC 240
CTTGTTGGGT TGTCAGCCAT GGACATGGAT TTCAACCCCT GGAGAAAACG NTGTCATTGT 300
TCAGCAGCTG AGNGCCCCAG GCGTCCGNGG CGNCTTTN 338

SEQ ID NO:1714

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01931

SEQUENCE DESCRIPTION:

GATCCCATAT CTATTACCGT GTCCATAGGA ATAATAGGTA AGGGCTCTGT CTCTGTCAAG 60
CCATGTAACA AAGGACACTG TTAAA 85

SEQ ID NO:1715

LENGTH:260

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01932

SEQUENCE DESCRIPTION:

GATCCAGCCC TGGTCTGGC TGTGGTCAGC AGATGCCAGT NAAGGGTTTT GTGTGTTTAG 60
GCCTCATTTT TTTGTCTTTT TCCTACTCCG TTCTGGCAT TTGCTGATTT CTAGTGTATA 120
CTCTGTAGTC TCAGTTCGTG TTTGATTCCA TTCCATGGAA ATAAAAAGTA TGTTGTACAT 180
ACTGCCGAAG AATTGTCTTG CAAGTNAAGG CTTCCCCTT TACTATAAGA CTATAAATAA 240
AANCTTATTT NATCCNAAA 260

SEQ ID NO:1716

LENGTH:430

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01933

SEQUENCE DESCRIPTION:

GATCTTGTGC TGTGCTATCC GCAGAACCGC GAGATGGTCT AGAGTCAGCT TACATCCCTG 60
AGCAGGAAAG TTTACCCATG AAGATTGGTG GGATTTTGTG TTTGTTTGTT TTGNTTGTGTT 120
TGTTGTTTGT TGTTTGTTTT TTTGCCACTA ATTTTAGTAT TCATTCTGCA TTGCTAGATA 180
AAAGCTGAAG TTA CTTTATG TTTGTCTTTT AATGCTTCAT TCAATATTGA CATTTGTAGT 240
TGAGCGGGGG GTTTGGTTTG CTTTGGTTTA TATTTTNCA GTTGTGTTGTT TTTGCTTGTN 300
ATATTAAGCA GAAATCCTGC AATGAAAGGT ACTATATTG CTAGACTCTA GACAAGATAT 360
TGTACATAAA AGAATTTTTT TGNCTTTAAA TAGATACAAA TGTCTANCAC CTTTAATCAA 420
GTTGTACCTN 430

SEQ ID NO:1717

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01934

SEQUENCE DESCRIPTION:

GATCGAGCCA CTGCGCTCCG GCCTGGGTGA CAGGAGACTC CATCTCAAAA AATAAAATTA 60
AAAAAAAAAC TACTACAATA AATTATCACC TTGGACTGTA TAAAACAACT TTNAACTAG 120
TCTTTTNAAA AAGTACACTT AAATAAAAAAT CTAANCATAA GNGANTGTAA A 171

SEQ ID NO:1718

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01935

SEQUENCE DESCRIPTION:

GATCGCTCAG AAAATGGGAA CCCAGGGCAA ATTGTATGTG CTCCTTACTG GGTTTATTAT 60
AAGTGTACACA TGTTTTTTAT AATAAACAT AGGTGATTTC ACCTTAATGG ACAA 115

SEQ ID NO:1719

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01936

SEQUENCE DESCRIPTION:

GATCCTCCCA CCTCAGCCTC CTGAGTAGCT GGGACCATAG GTCACAACA CCACACCTGG 60
CAAATTTGAT TTTTTTTTTT TTTCCAGAGA NGGGGTNTTG NANCATTGCC CAGNN 115

SEQ ID NO:1720

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01937

SEQUENCE DESCRIPTION:

GATCTAGCAC TTTACAAAGT AAGTTTTCT GTNACTTAGA GCTGAAAATA AAAGCAATGT 60
AGAGTTACGC TTTTATAAGT ATTNANGTT TCANAAATNA TGCATACAGC AATTN 115

SEQ ID NO:1721

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01938

SEQUENCE DESCRIPTION:

GATCATTTAG TTCTATCTAT TTAGAAATAT GTAAACTGG ATTTTTTTT AAGTAATATG 60
TGACCAAAGT TAATTTTGTC CCAAAGGTCT AAATAAGAG CAGTTTCCA TAAA 114

SEQ ID NO:1722

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01939

SEQUENCE DESCRIPTION:

GATCGCCACA GCCCTTCTTG GAAGAAAGGC GTCTGTGTTT CAGGTTCCAC GCGAGTCACC 60
TCTTTCGTCT TAATGTTTAC CGTCCACAGC TTTGGAATAA ACCATCCTGG GAAGTAAA 119

SEQ ID NO:1723

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01940

SEQUENCE DESCRIPTION:

GATCTTTGAC TGTATCATGC ATTGTACAAT TGATTTTATA TTTTATGAAA TGCCTTAATT 60
TTCTACTAT AACATAAAGA CAATGATGAA TAAAGTTTAT GTGTATGATT AAA 113

SEQ ID NO:1724

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01941

SEQUENCE DESCRIPTION:

GATCAGAAAC ATACATACCC TNCCTAGGGA TTTAGAAAGT GGGTTGGCAG TCTTCTCTCA 60
CGTCCATCAC GCANTTGGNA CCTACTNCAG TGTATTGTAA ACTTTTTTCT CNN 113

SEQ ID NO:1725

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01943

SEQUENCE DESCRIPTION:

GATCCCAGAG GTCANGACCA AANCCAATCA GTGAAAATTC AACTNTAGCT GTGAAAACAT 60
TGCACTAACA GGAGCTATCC AACAATGGAC CAGAATGTTG ACAATAAAGT N 111

SEQ ID NO:1726

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01944

SEQUENCE DESCRIPTION:

GATCCCGCAG GTGGCAGCTG ACAGCTAGGG TTCAAAACGT TCTCACCAAA TCCAATGCTC 60
CTCACATATT AATTTTATAA CCAGACAAAT AAATATTAGA GACAACCACC AAA 113

SEQ ID NO:1727

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01945

SEQUENCE DESCRIPTION:

GATCTCAAAA TTCCAGAATT CCCTGTACAT CTNTCCACGT GCTTGTGCTC CAGGTGTGAC 60
TTGTAAACTG TCTAGTGTTT GCNTTAAATA AAATGGCACC GAGCATAAA 109

SEQ ID NO:1728

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01946

SEQUENCE DESCRIPTION:

GATCCGTATC GGTTTAAGAA GCGGACGGAG CTGTTCATTG CCGCCGAGGG CATTACACG 60
GGCCAGTTTG TGTATTGCGG CAAGAAGGCC CAGCTCAACA TTGGCAATTT GCTCCCTGTG 120
GGCACCATGC CTGAGGGTAC AATCGTGTGC TGCCTGGAGG AGAAGCCTGG AGACCGTGGN 180
AAGCTGGCCC GGGCATCAGG GAACTATGCC ACCGTTATCT CCNACAACCC TGAGACCANG 240
ANGACCCGTG TGNAGNTGCC CTCCGANTCC AAGANGGTTA TNTCCTNAGN CATCAGNGCT 300
GTGGTTGGTG TGGTGGCTGG NGNTNGNCN 329

SEQ ID NO:1729

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01947

SEQUENCE DESCRIPTION:

GATCTGTCAA TTTCTTTGTN CAGAATGATT TGAAGTATTG TATTCAGTTT ACATGCATTA 60
TTGGNTTATA ATNAATATCT AATGAAAATA CATGTTGTGA TATTGTAAA 109

SEQ ID NO:1730
LENGTH:215
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01948
SEQUENCE DESCRIPTION:
GATCAGCTGA TGGAGCTCCT GATTTGACAA AGGAGCTTNC CTCCTTTGAA TGACCTAGAG 60
CACAGGGAGG AACTTGTCCA GTAGTTTGGA ATTGTGTTCT TCGTAAAGAC TGAGGCAAGC 120
AAGTGCTGTG AAATAACATC ATCTTAGTCC CTTGGTGTGT GGGNNNTTGT TTTTTTTTTT 180
ATATTTTGAG AATAAACTT CATATAAAAT TGAAA 215

SEQ ID NO:1731
LENGTH:107
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01949
SEQUENCE DESCRIPTION:
GATCGCACCG CCCCTCGCAG AGAGTGTATC ANCTGTTTTA TTTTGTAAG AACAAAGTGC 60
TAAATAATAT TNATNACTTG GTTTGGTTNC AAAANCGGAT TAAATGN 107

SEQ ID NO:1732
LENGTH:107
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01950
SEQUENCE DESCRIPTION:
GATCACTGTG GTNTTCATAT TTCTAAAATA AATGAATTAA AAANTTTAAN GNCTTAGATG 60
CTTATCTCTA TCATAGCTCA GAATGCAACT NCAATACCCC CATTCTN 107

SEQ ID NO:1733
LENGTH:106
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01951
SEQUENCE DESCRIPTION:
GATCAACTGT ACGCCTTTGG TATCTGACCA TAAAGTCTTT TGCTCCGCTG ACATTTGGGT 60
GATGTCTTCA CATGGAAATA TAATAAAAAT AAAAATCTAG TTAAAA 106

SEQ ID NO:1734
LENGTH:106
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01952
SEQUENCE DESCRIPTION:

GATCGAGGCT TCAGTGAGAT ATGGCTGAGA CACTGCTCTC AGCCTGGATG ACAGAGTGAG 60
AACCTGTCTC AAACAAGAGA AAAAAATAAA TCAAANNCTA TTCAA 106

SEQ ID NO:1735

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01953

SEQUENCE DESCRIPTION:

GATCTGAGGA GGCTTCGTGG GCTTTTGGGT CCTCTAACTA GGACTCCCTC ATTCCTAGAA 60
ATTTAACCTT AATGAAATCC CTAATAAAAC TCAGTGCTGT GTTATTTGTG CCTCATTTCC 120
CCAGGAATAG TCACTGCCTT GAGGAACCAA A 151

SEQ ID NO:1736

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01954

SEQUENCE DESCRIPTION:

GATCCACCCA CCTNAGGCCT CCCAAAGTGC TGGGANNACA GNCGTGANAA CCACGGCTTC 60
GCCAACAATG GATTTTAA TATTTCCAC GCTCACAAAA AACCTN 106

SEQ ID NO:1737

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01955

SEQUENCE DESCRIPTION:

GATCNANCT CAACACCTAG TGCAATTCTT TTTACACATT AGGNACTTAG TAATTNGGT 60
TGAATTGTGT TGAATAACC TGGCGGTATA GGCAAAANTT GGAAGN 106

SEQ ID NO:1738

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01956

SEQUENCE DESCRIPTION:

GATCTCCCAT TTCTAGGAAC CCCAGTCCTG CTTCTCCGA ATGGCACATG CTTCCACTCC 60
ATCCATACTG GCATCCTCAA ATAAACAGAT ATGTATACAT ATAAA 105

SEQ ID NO:1739

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01957

SEQUENCE DESCRIPTION:

GATCCAAGAG ATATATTGG CAACTTTTTC TAGAAAAGGC ACATTGGGTA TAATTCATTA 60
CATTCTTGAG TTTTTTGGG TTTTTTTTTT TTTTTNGNG NNANN 105

SEQ ID NO:1740

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01958

SEQUENCE DESCRIPTION:

GATCCAGCTG GAAAGCTGAA GTATTTCGAT AAAGTGAATT GAGAAATACT TCTCAAGTT 60
ATGATGCTTG AAAGTTCTCA ATAAAGTTCA CGGTTTCATT ACCNAAA 107

SEQ ID NO:1741

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01959

SEQUENCE DESCRIPTION:

GATCTTAAGG TATCAGTATT TCAGAATCCT GCGACGATTT TATTTCTAAA TTCATGTACT 60
GTATGTCCAT AAGTGAAAAT AAAATNTCAT ATTCTTTTCT ATNATTGGTA TCATTCAA 119

SEQ ID NO:1742

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01960

SEQUENCE DESCRIPTION:

GATCCTTAGC TCTTTGCTCT ATGGCCCTTC CTCATCAGGG GACCGTTTCC CCCCTCTTCC 60
TTCACAGTAT TTAAGAAATA AAAGTCGGAT TTNCTGGCT GCTTTCTCTC TAAA 114

SEQ ID NO:1743

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01961

SEQUENCE DESCRIPTION:

GATCGCCCCA TTGCACTNCA ANCTGGACAG CAAGAGCAAA ACTCCGTNTC AAAAAACAAA 60
AACAAAANCA AACAAAAAAN TTCCCCTGAG AGAAAACCTA TN 102

SEQ ID NO:1744

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01962

SEQUENCE DESCRIPTION:

GATCACACAC TAAGAGAACG TTGATTGCCT CGGCTATTGT GCTGGCTGGA CACTTTGGTC 60
ACTTTTGAAG CATGTTAATA AATGTCACTG ATTAACA A 101

SEQ ID NO:1745

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01963

SEQUENCE DESCRIPTION:

GATCCAAGTT TGAAAACAAT TTAGGCTAC TAGATATGAA CAACATCTTG ATTATGTAGT 60
TGAAGGAAAT TAAAGATGAA TGGTTTAATT AAAAATTAAA 100

SEQ ID NO:1746

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01964

SEQUENCE DESCRIPTION:

GATCAAATTA AATAATTCAA GCCCTGCCTT CAAAATGAAA TTTTTTTTTT AGTATTATTT 60
AGCAAAANCA ATAAACCCA AATTTTTTTA ACCATCAAA 99

SEQ ID NO:1747

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01965

SEQUENCE DESCRIPTION:

GATCACTTCA AGCAAGCCCC CATGATGGTT CTCAGTCCTG CTTCTCTGTG GGTACGTGCC 60
CCTCTGTTTA AAAATAAACT GAATATGGAT GTTTAAA 97

SEQ ID NO:1748

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01966

SEQUENCE DESCRIPTION:

GATCAAAATG AAACCTGTT GATGTGAATT CAGTTATTGA ACTTGTTACT TGTTTTTGCC 60
AGAAATGTTA TTAATAAATG TCAATGTGGG AGATAATAAA 100

SEQ ID NO:1749

LENGTH:95

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01967

SEQUENCE DESCRIPTION:

GATCTGATGT TCCTTTTATT TATAACAATG TTAAATGCAA TTGTCTTGTA CCTTGAGTTG 60
AGTATTACAC ATTAAAGTAA AGTACAAGCT GTAAA 95

SEQ ID NO:1750

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01968

SEQUENCE DESCRIPTION:

GATCCAGAAG TAAATGTATC TNCAAGCTGA TTAAATTGT AGATTNNTC TTCATTGCAT 60
ATTNCTGAT GTTGAATAAA GTCTGAGTAT TAAA 94

SEQ ID NO:1751

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01969

SEQUENCE DESCRIPTION:

GATCCAAAGT ATATTTTAC TGAGAATATA TCTGAAAAA TTTGAATTGA GATTAAATTT 60
TTAAATGAAA TATATTACT TTTTTTAAA 89

SEQ ID NO:1752

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01970

SEQUENCE DESCRIPTION:

GATCCTGGCC CCTCAACCTC CTGTGGAACC CAGCAGTTCT GTTATATCCC CTGCTACCCT 60
AGATGAATTA AGACGGTTAA ATACTGAAA 89

SEQ ID NO:1753

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01972

SEQUENCE DESCRIPTION:

GATCTGTCTT GCTTATTGTT GCCCCCTGCG NCTAGCACAA TTCTGACACA CAATTGGAAC 60
TTACTAAAAA TTTNTTTTAA CTGTTTAAA 89

SEQ ID NO:1754

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01973

SEQUENCE DESCRIPTION:

GATCATATGG TAGTTTTGTT TTACTAATCT AAGGGTACTA GCATCTACAA TNATATAGAC 60
 AAAATAAAAT ATTTCTTTAA TGGCAAA 87

SEQ ID NO:1755

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01974

SEQUENCE DESCRIPTION:

GATCTGTTTT CTCTAAAATC TTACCATATT GTCTGTATAT GGTGTAAAT NCAATGGAA 60
 AGTAAAACGT TTTGGCCCTG ATAAA 85

SEQ ID NO:1756

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01975

SEQUENCE DESCRIPTION:

GATCCTGCTG GAAACCACGG CAACCTGTAT CCACTATTAG GAGGTAAAAA TCAATAAAAT 60
 GGCCCATTC A TTTGTGTTGT AGCTCAAA 88

SEQ ID NO:1757

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01976

SEQUENCE DESCRIPTION:

GATCTACAAC ATATAAAATT GTGTATTTTC NTTTGGTTGT CCCTATTAAC AAAAAAGTAT 60
 TTNAATAAAA ANTTGAAATG NAAA 84

SEQ ID NO:1758

LENGTH:82

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01977

SEQUENCE DESCRIPTION:

GATCCCACTG TAAAATTGGA AATGGGCAGT TCTGAATTTT CACGTTTGAA ATGTAAAATA 60
 TAAACTTCAG TCAATATCCA AA 82

SEQ ID NO:1759

LENGTH:82

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01978

SEQUENCE DESCRIPTION:

GATCTGGACG TTCACGTGCA CTCTCTTCCT GTACAGTATT TATTGTTTCCT GGCACCTTAT 60
TTAAAGATAT TTGACCCTCA AA 82

SEQ ID NO:1760

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01979

SEQUENCE DESCRIPTION:

GATCCTTACT CCTGCATTGT TCTTTGCCAG NGNCCTATTT AAAAATTTTA AAATTCTCAT 60
TAAAGTCAGC TTGGGTTTAA A 81

SEQ ID NO:1761

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01981

SEQUENCE DESCRIPTION:

GATCTAAAGA GAAAAGGGAG AAGAGGGAAA AAGGAAACAA AGGAGAAGAA AGAGGGAAAG 60
GAAAAAAAAG AAAAAGAAA 79

SEQ ID NO:1762

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01982

SEQUENCE DESCRIPTION:

GATCATGAAA GGTGATAAGC TCTTCTATGA TAGGGGAAGT AGCGTCTTGT AGACCTACTT 60
GCGCTGTTGT ACTCTGAAA 79

SEQ ID NO:1763

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01983

SEQUENCE DESCRIPTION:

GATCAAATAT TTTGCCTTTN ACTNAAATCA GCCAGCCCAT NACCCCAAT AAAGGGCAGC 60
TGCCTCTGCT CCCTCTGAAA 80

SEQ ID NO:1764

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01984

SEQUENCE DESCRIPTION:

GATCAAATTT CTAAAGCAA ACAACAAAAA TGTACATTTC TGTTTTTCCT TTAAATAAAC 60
AGGTGTACTC TTTATCAAA 79

SEQ ID NO:1765

LENGTH:78

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01985

SEQUENCE DESCRIPTION:

GATCTAGTGT CCTTTTGTGA CACTAAACAG GTGAATGCTG ACTTTTTTCA TTCTCCAATA 60
AATNTCACTG AACTGAAA 78

SEQ ID NO:1766

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01986

SEQUENCE DESCRIPTION:

GATCTTTGTT TAGTTTCAAG TCTTTTATA ACTAAATCTG CTGGCATTAG ACAATAAATA 60
CATTTTCAAA ATAAA 75

SEQ ID NO:1767

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01987

SEQUENCE DESCRIPTION:

GATCATATAT ACTTGACATAA TATCATCCCT TCCCTTGATT TCTTTCAATC TAAAAATAAA 60
TATGAGAAAA ACAA 75

SEQ ID NO:1768

LENGTH:78

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01988

SEQUENCE DESCRIPTION:

GATCGATATT AATGTATCCA ATGAAATAAT CGACTTGTNC TTGATAGCCT CATTAAAGCA 60
TTTGGTTTTN CACATAAA 78

SEQ ID NO:1769

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01989

SEQUENCE DESCRIPTION:

GATCTGAGCC CCCAAGATGG AGAATGGGGA GGAGCTTTT ATGGCGGACT GATTAAACT 60
CTTAAGCATT TAAA 74

SEQ ID NO:1770

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01990

SEQUENCE DESCRIPTION:

GATCTGCTTG GCCTTGATAA GCTATGTTGT TGCACTTTAA ACATTTAAAT TATACAATCA 60
TCAACCCCA AA 72

SEQ ID NO:1771

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01991

SEQUENCE DESCRIPTION:

GATCCTCCCC TTCAAATGAC TGTAATTAAC AACACTTAAA AAACCTGAAT AAAATATTGA 60
AACCTCAA 69

SEQ ID NO:1772

LENGTH:68

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01992

SEQUENCE DESCRIPTION:

GATCTATTCT GAAGCTGTTC ATTTTAAACA AATAAAATGT TACAGGTTTC ACATGATTGA 60
TTCTCAA 68

SEQ ID NO:1773

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01994

SEQUENCE DESCRIPTION:

GATCCGTAAC TNCGGGATAA GGATTGGCTC TAAGGGCTGG AGAAGGAATG AATAAAAAA 60
AAGAAA 66

SEQ ID NO:1774

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01995

SEQUENCE DESCRIPTION:

GATCCCATGT CTCTGCCAGG ACCAAGGCNG ATGTTTCCCC ACTAATAAAG TGCCGGGTGT 60
CAGCAAA 67

SEQ ID NO:1775

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01996

SEQUENCE DESCRIPTION:

GATCCTTTTT AATACCACAG CATTTGTACT GTTCCTTTTT AATATACTGA AAATATAAAA 60
GGAAA 65

SEQ ID NO:1776

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01997

SEQUENCE DESCRIPTION:

GATCCGATTA TTTCTGCCAG TNTATTTTGG NCACTTTATA ATCATTAAAG CACTTTCTTG 60
GCAGGCNCAA A 71

SEQ ID NO:1777

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01998

SEQUENCE DESCRIPTION:

GATCTTACAA TAATGTTCCA CTCTGCAAAT TTTAAGGTT CAAATAAAGT TTAATTGTTT 60
GCAAACGTGA AA 72

SEQ ID NO:1778

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01999

SEQUENCE DESCRIPTION:

GATCATTGCA CCATGTCAGA CTTTGTATA TNCCTTGAAA ATAAATGAAA GTNAGAATCN 60
TCAAA 65

SEQ ID NO:1779

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02000

SEQUENCE DESCRIPTION:

GATCCTGTCC TGATTCTCAA AAATTATTTT CTCTGTATGA TAAAAAGTTT ATTCCATTTA 60
AA 62

SEQ ID NO:1780

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02001

SEQUENCE DESCRIPTION:

GATCCCTTCA TTTGAATATT AATGGCTTTT TCCATTAAAG AATAAAATAT TTTGGACAAT 60
GCCAAA 66

SEQ ID NO:1781

LENGTH:68

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02002

SEQUENCE DESCRIPTION:

GATCAAATTT ATAAGTTATT ATTTTAAATT TTCTAAATTA AATAAAAGAA AGAATGCAAA 60
CCAGGAAA 68

SEQ ID NO:1782

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02003

SEQUENCE DESCRIPTION:

GATCAATAAA GAGTAATTTT TTGCTAAATA AATAAAAGAA ACCTTGTTGA AAAACTAAA 59

SEQ ID NO:1783

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02005

SEQUENCE DESCRIPTION:

GATCTGAATN ATGCACCCCA CCCCCACCCC AATAAAGAAA TAACAGAAAA CCCTCGAAA 59

SEQ ID NO:1784

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02006

SEQUENCE DESCRIPTION:

GATCTTCATT TTTTTTTTAA AACTTGGCGT TTTTGAATA AAAACCTTTT GTCTTAAA 58

SEQ ID NO:1785
LENGTH:59
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02007
SEQUENCE DESCRIPTION:
GATCTCAGTT GTAAATAGAA AAATCTAATT CAATAAACTC TGTATCAGCC CCCAACAAA 59

SEQ ID NO:1786
LENGTH:52
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02010
SEQUENCE DESCRIPTION:
GATCCAAAGT CATGTGTCCA CACATTCATA AATAAAAATT TTACCTATGA AA 52

SEQ ID NO:1787
LENGTH:51
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02011
SEQUENCE DESCRIPTION:
GATCCAGTGA AGCCAGAAGC CAAATAAACT CAAAAGCTGT CTCCCCACAA A 51

SEQ ID NO:1788
LENGTH:54
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02012
SEQUENCE DESCRIPTION:
GATCCTAATT TATGCCTATG CAAAAAATAA ATAACGCCCA AGAGCTGTGG GAAA 54

SEQ ID NO:1789
LENGTH:53
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02013
SEQUENCE DESCRIPTION:
GATCGCCTAG TATGTTCTGT GAACACAAAT AAAATTGATT TACTGTCTGC AAA 53

SEQ ID NO:1790
LENGTH:58
TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS02025

SEQUENCE DESCRIPTION:

GATCCGTAGT AATAAATTCT CAGAGGACTC AGCCTTTCCT GCGGGTCTGG AGCTCAAA 58

SEQ ID NO:1791

LENGTH:597

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02039

SEQUENCE DESCRIPTION:

GATCAGAGTC TCTTGGGCAT TTTATATTTT GCATTCTGAT GTACCTAGGA GTTTTGTAA 60
ACAGATGATG TATGTNAGTA TTTATCCCAT TTTATGCAAT TAACCAAATC AACCAAAAAA 120
AGTGACCATG AAGTCCTGTA TTTGTNTTTT TACTACATGT AGGAACTCTC ATGTGAATGA 180
GTACTGTAGT AATCCATTCT ATGGGAGCCT TATTTCAGAA ATATTTCAAA CTGGTGCAAA 240
TGGAAAAGAC TTTCTCTTTT CCTTTAAAGC TAAAGACAAG AATATCATGC TATACAGGTG 300
CAACTCAATC CCCGTTAATA AAAACCAATG TAGGTATAGG CATTCTACCC TTTGAAATAG 360
CTGTGTCCCA ACCTGTTGCC ATTGATTTTT TGGGAATGGC TTTAGGAAAT ATCCAAGTTG 420
TCCTTGGAAT TGTCTAACCA TGGNCATAAA CAGTTGTCTC CCTTCTACTT GTGTAGAATA 480
CTTTGGNCTT AATTTTCCTN CCAGATACAG GGGGGTACCT GCCTGTTTTT CNAAGGGTTT 540
ATTACTGGNG GTACCATTG GTAGGATTGT TTAAATAAA AAAACCTGGT TTTTAA 597

SEQ ID NO:1792

LENGTH:518

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02040

SEQUENCE DESCRIPTION:

GATCCAAAAC TGGACCCTTG GAGCCGTCGA CTCACAGATG GATGACATGG ACATGGACTT 60
AGACAAGGAA AAAANNCAGG ACTTGAAGGA GCTCAAGGTG CTAGTGGCTG ACAAGGACCT 120
TCTGGACCTG CACAAGAGCC TGGTGTGCAC TGCTCTCCGG GGAAAGCTGG GCGTCTTCTC 180
TGAGATGGAA GCCAACTTCA AGAACCTGTC CCGGGGGCTG GTGAACGTGG CCGCCAAGCT 240
GACCCACAAT AANGATGTCA GAGACCTGTT TGTGGACCTC GTGGAGAAGT TTGTGGAACC 300
CTGCCGCTCC GACCACTGGC CACTCAGCGA CGTGCGGTTT TTCCTGAATC AGTATTCAGC 360
GTCTGTCCAC TCCCTCGATG GCTTCCGACA ACAAGGCCCT CTGGGACCGC TACATGGGCA 420
CCNTTCCGNG GCTGNCTNCT GCGGCCTGTN ATCATGACTG AGGTGGCCTN CCAAANGTTN 480
CGCCCAAGGT TGACAATAAA GTTGCTCTGA GTTTGAAA 518

SEQ ID NO:1793

LENGTH:513

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02041

SEQUENCE DESCRIPTION:

GATCTGTAAT TTAAATTTTC ACCCTCTGTA CCCCATGACC TTATCCTTCC TCTCCTTCCT 60
TGTTACCCAT GAAAACTGG CAACATTCCA AGAATAGCAT CTGTACAAAG GGGAAAGAAC 120

00744

ATAAAGGTAA AACAAAACAA AACAAACATTT TGAGAACAAA GATGACCATA ACCACTGAAG 180
 GGAATCACAT CTTTAAAGAC AAATTCATAT TCTTTTATTT GTTATGGCAG ATGACAAGAT 240
 GGTACAACCT TTATTCTTTT NCAAAAATAAA ACAAAGGGCA CAGCATCTGT AGTCAGCCGA 300
 CAACTATTNC GGCCTTTTGG GGGTNGGTCT NGCCGTACTT GTGATTTCGA TGGTACGTGA 360
 CCNTNTTCTG GAAGGCTTGC CCCNTTGCCC GTGTACATAG GTGCATTGGT TNCTNTGGGA 420
 GGGGCCCAAG NACTTTTNGG CNANNGTTGT ACTGGTATTG TNATGAAATT TNCGGTTGGN 480
 CCTCTTGNN NTTTTTTNTG CANGAANGNN GGN 513

SEQ ID NO:1794
 LENGTH:499
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02042

SEQUENCE DESCRIPTION:

GATCTCTTAA GAGATGATGG ACTCATGTAT GTCACCCGAC TTCGCAACAC TGGGGTTCAG 60
 GTGACTCATA ACCATGTTGA GGATGGATTC CATGGAGCAT TTTCATTTCT GGGACTTAAA 120
 ATTAGTCACA GACTTATAAA TCAGTATATT GAGTGGCTAA AGGAAAATCT ATAGTAAAAC 180
 ATGTAGCTAT AACATATTTT AAAAATAAAA TCTGAAAACC TCAGAAAATT TGCATTAGAA 240
 ATTGGTCTTT CTTAGAATGG TCTAGTTAAG TTCCACATGT AGCATAATTC TTAAATAGGC 300
 ACTTTTCTGT TTTTTTTTNC TNACTGTGGG ATTTTCATNNC AATTTTCTAC ATTGTCTATC 360
 TGCTTTTNC TNGATTTTCC NCTTACACTG TTAATCTNAT TTTAAAAAAA TGTACATNCC 420
 NNGNANACNT TAANTTTGGG GAGTTNGGCT ACNANTTNAC GGTTGCCAGG GGGNTTAAAT 480
 GGTGGGGCCA ATTTTAAA 499

SEQ ID NO:1795
 LENGTH:483
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02043

SEQUENCE DESCRIPTION:

GATCAAAGCG CCACTGCCCT GCACTTCCTG GGCCGCGTGG CAACCCGCTG NGCACAGCAT 60
 GAGGCCAGGG NCCCAGAACA CAGTGCCTGG CAAGGCCTCT GCCCNTGGCC TTTGAAANAA 120
 AGGCCAGCAG CAGATAACAA CCCCAGACAA ATCAGCGATG TGTCACCCCC AGTCTCCCAC 180
 CTTTTCTTCT AATGAGTCGA CTTTNGCTG GAAAGCAGCC GTTTCTCCTT GGTCTAAGTG 240
 TGCTGCATGG AGTGAGCAGT AGAAGCCTGC AGCGGCACAA ATGCACCTCC CAGTTTGCTG 300
 GGGTTATTTT AGAGAATGGG GGTGGGGAGG CAAAGAACCA GTGTTTAGCG CGGGACTACT 360
 GTTCCAAAAA GANTTNCAAC CGNCCAGNTT GTTTGTGAAA CAAAAAAGTG TTNCCTTTTT 420
 CAAGTTTGAG AACAAAAATT GGGGTTTTAA AATTAAAGTA TACCATTTTT TGCATTTGNC 480
 AAA 483

SEQ ID NO:1796
 LENGTH:481
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02044

SEQUENCE DESCRIPTION:

GATCCAAAAC GCTTCGAGGC ACCCCAAATT ACCTGCCCAT TCGTCAGGAC ACCCACCAC 60
 CCAGTGTAT ATTCTGCCTC GCCGGAGTGG GTGTTCCCGG GGGCACTTGC CGACCAGCCC 120
 CTTGCGTCCC CAGGTNNNNA GCTCTCCCCT GGGCCACTAA CCATCCTGGC CCGGGCTGCC 180
 TNGTCTGACC TCCGTGCCTA GTCGTGGCTC TCCATCTTGT CTCCTCCCG TGTCCCAAT 240
 GTCTTCAGTG GGGGGCCCCC TCTGGGTCC CNTCCTCTGN CATCANCTGA AGACCCCCAC 300
 GGCAAACACT GAATGTCACC TGTGNCTGCN GNCTCGGTCC ACCTTGCGGG CCGTGTTTGA 360
 CTAAACTTNA ACTTCTTTTA ACGGTAATAT TTCCGGCAAA AATCCAATGG TTTGGGTTTT 420
 GGTCTTTTAA CNTGTAAAC GGTGCAAAT CCAAATAAAA GCAATTAAAA AGTCAATGAA 480
 A 481

SEQ ID NO:1797

LENGTH:462

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02045

SEQUENCE DESCRIPTION:

GATCTAAAAG GGTTCCTTA GAAAGGGCAA TATTGTCCAA TGAAGTAAGC AGAAGGACTC 60
 TGGGTTAGAA GCATCTGCAC AAAAAGTGGT GAGACCTACT CTCCACTGCT CTGCAGCTGG 120
 ATGGCTGATG GCAGGCTGAG CAGTGGGGAA GCAGGTTTTA ACAACAGGGA GTCCTTCCAG 180
 GTCACTGTAT ATTGNGAAGA AACATAAAAC TATTGTCTGT TACATTCCGA GGTGAGCCTT 240
 CTNCTTAACG TTTTATAATA TGCAAATNCC AGCTTCTGGA AAGCANGTAT CATCATGTAC 300
 CAAATGCTTT ATACACCATC ACATTGATGA NTTTTNAGC ATGGTCAGAN CTTGTGTAAG 360
 TATGTCTCTT AGGATGATTT TGGGGGAGGA TGTGATTAT TTTCCATAAT TTCCAAANTN 420
 GCATTTTCCA TTTCAAATA AGGNTAATCT NTTGGGGCCA AA 462

SEQ ID NO:1798

LENGTH:448

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02046

SEQUENCE DESCRIPTION:

GATCAGCCTG CAGCCATCCC CCGACCCTGC TGCTAGGCCA CGGTCTGCGC CCTGGGGCCT 60
 CATCTCCCCC AGCCCACTTG TTTTCCCCC TTTTATTCCC TAGGCCCTTT TCAGACTCCT 120
 GGGCCCTTGG NNNCTCTTCT CCCATCTCCC TTCACAGGAT GACACCCTCC CATACCCCAT 180
 AGCTGGGGCC AGCAGGTTCT GCTGAGGGTG GGGCTGGTGT AGGGACCCCC AAGAGACCCC 240
 TGTCTGTCC CTTCACCAGT CCTGGGGAGG CTGGGACTCC CCCTGCCACA AGCCTGGGGC 300
 ACAGTTCACA TTCCACTGCT GGGAGAAGAA ACAGGCCGAG GCCCAANAGT GGCCTGCCCC 360
 CGGGAGCCAA AGACCCNAGT GGCCACANTG GGATTAGGGT NGGGGAGGNT TGGNAGCGCT 420
 NTTTTTATAA ATATTATACA TAAGGAAA 448

SEQ ID NO:1799

LENGTH:448

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02047

SEQUENCE DESCRIPTION:

GATCTGGTTG GTGGATGAAC AAGTGTCACG CTGGCCATCT CAATGGNGTT TATTACCAAG 60
GTGGCACTTA CTCAAAAGCA TCTACTCCTA ATGGTTATGA TAATGGCATT ATTTGGGCCA 120
CTTGAAAAAC CCGGTGGTAT TCCATGAAGA AAACCACTAT GAAGATAATC CCATTCANCA 180
GACTCACAAT TGGAGAAGGA CAGCAACACC ACCTGGGGGG AGCCAAACAG GCTGGAGACG 240
TTTAAAAGAC CGTTTCAAAA GAGATTTACT TTTTAAAGG ACTTTATCTG AACAGAGAGA 300
TATAATATTT TTCCTATTGG ACAATGGACT TGCAAAGCTT CACTTCATTT NNNNGAGCAA 360
AAGACCCCAT GTTGAAAAAC TCCATACCAG TTTTATGCTG ATTGATAATT TATCTACATG 420
CATTCAATA AACCTTTTGT TTCCTAAA 448

SEQ ID NO:1800

LENGTH:432

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02048

SEQUENCE DESCRIPTION:

GATCTGAATT ATCTGGCACC CTCCTGAATG GAACCCAGAG GTACCTCCTG TGTGGAAGGG 60
TCCTGGATTT TCCCTAACAC CCACCCTCTC CCCCTTCAGC CATGCTGATG GCAGAGAAGA 120
TAAGAACTTG GAGCCCATTT CTCACTGGAG AGGAAAACCT GTCATCTGGC TTTGCGGAGA 180
AGGTTCCACC TTACGCTCGT AGTACATTAT CTTTACTATG TGCTAGGATA TCATATTTAA 240
AAGGACAAAA AAATGTAAAA TACTTGAATG AGCTTGTATT ATANCATTAA TATTATNNNG 300
NGTATCTGCT TTCCAGGCTG AAGTGATTCA TTCATTATTC TAGTCCTGCT TTAGTCCTTT 360
GTAATTTGTG GTAATTATGC TTTTCTTTT AATACAAAAA AATGTATAAA ATTAACACT 420
TGAAAAGGCA AA 432

SEQ ID NO:1801

LENGTH:430

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02049

SEQUENCE DESCRIPTION:

GATCCGNGCG AGGGCAACAG CGGNTCACCT ACAGCGCACT GTCGATGGCT GCACGAGTCA 60
CACCGGAGCC TGGGGCAAGA CAGTGATTGA ATACAAAACC ACCAAGACCT CCCGCTGCC 120
CATCATCGAT GTGGCCCCCT TGGACGTTGG TGCCCCAGAC CAGGAATTCG GCTTCGACGT 180
TGGCCCTGTC TGCTTCCTGT AAATCCCTC CATCCCAACC TGGCTCCCTN CNACCAACC 240
AACTTTNCCC CCAACCNNGG AAACAGACAA GCAACCCAAA CTGAACCNNN TCAAAAGCCA 300
AAAANTNGGG AGACAATTC ACATGGACTT TGGAAAAATA TTNTTTTCCT TTGCATTTCAT 360
NTNTCAANCT TAGTNTNTA TCTTTGANCA ACCGGANCAT GGCCAAAAAN CAAAAGGTGC 420
ATTCANCCTN 430

SEQ ID NO:1802

LENGTH:428

TYPE:nucleic acid

TOPOLOGY:linear

00747

CLONE:HUMGS02050

SEQUENCE DESCRIPTION:

GATCCCAAGG GAAAGATGAT TTGTATGTTA AAGTGACTGC ACAAGTAAAA GTCCAATGTT 60
GTGTGCATGA AAAGGATTCC TTGGTTATGT GCAGGGAATC ATCTCACATG CTGTTTTTCC 120
TATTTGGTTT GAGAAACAGG CTGACACTAT TCTCTTTGAT TAGAAAATAA ACTCATAAAA 180
CTCATAATGT TGATATAATC AAGATGTAAC CACTATAAAT ATGTAGAAGA GGNCGTTTTA 240
AAAGACCTTA AGCTGGCATT GTGAAGGAAC ACCATGGTAG ACTCTTTTGG TAAATGTATT 300
TTGTATTTAA TGAAATGCAG TATAAAGGTT GGTGANGTGT AATATANTTG TGTAAACAAA 360
TCCTGTTAAT AGAGAGATGT ACAGAATCGT TTTTGGTACT GTATCTTGGA AACCTTTGTG 420
AAAATAAN 428

SEQ ID NO:1803

LENGTH:401

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02051

SEQUENCE DESCRIPTION:

GATCAAAACC AAAGTGTTC AATGTGACAGT CTGAAAATTA TATACTCTAC TTCATTTCATG 60
TTACACTTTT TTCTACTCCT TACCTGCTTT TACTAATGCA TTTATCCCCA AGAAAACATC 120
CAACAATATG GGAATAATTT GGAACAATAT CCAGCAATTG GTATTTAAAT AATTTACTGG 180
TTACAAAACA ATATTATGAC CAGACTCCAT TTTAGAAAAA ATTAATCTG CATCGAAAAG 240
GGCCTTAAAA AATAGATTTT TAAAATCAAA ATCATGGTTG GCTCATGGGT GGGATTATTA 300
GTGTTCTTAA TAGTAGTTTG TCTGGATGTA CTTTCTGATT CTCCTGTAAT AAGCATGCAT 360
TGCTTTTGTA ATGNGGGAAT AATANACCAA TAAAAAGGAA A 401

SEQ ID NO:1804

LENGTH:396

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02052

SEQUENCE DESCRIPTION:

GATCCGGCTG CAAAATTCAT ACCAACCAAC AAATAAAGGA AGATACAAAG TCTTATAGAC 60
ATCCGGAAAA AAGATTTTCT CCTGTGCTGG TCTATGATGT ATGTGGCAGT TGCTGTCTGC 120
AGTTTACAAT GTATTGTAAG TGAAGATTTT TTAAATTCTA TCTTGCTGNT TNNNNTNNA 180
ATATAAGAAA CTGGTACTTG GTAAAGAAAT CTGTCCGTAA GTACCCCCAC AATCAGTCAA 240
ACTATATTTA AAGCCAGCCT GTTTTCAGAG TATGATGTCC TTTAATGTAA ACTCAAATAT 300
CAATATTTTA AATGTCCGGA TAATATTCTA GAGGTTTAAA AAATGGAAAT ATTTGANCTT 360
TCTATTGAAG ACAATAAAGG TACACAAGTC GTTAAA 396

SEQ ID NO:1805

LENGTH:392

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02053

SEQUENCE DESCRIPTION:

GATCAAGAGC AGTGCTTCTC CATTTGTTTT GCAGAGAAAT GTTTTTCATT TCCCGTGTGT 60
 TTCCATTTCC TTCTGAAATT CTGATTTTAT CCATTTTTTT AAGGCTCCTC CCCATCTCCT 120
 TTCTTAAGGC ACTGTTGCTA TGGCACTTTT CTATAACCTT TTCATTCTCTG TGTACAGTAG 180
 CTTAAAATTG CAGTGATTGA GCATAACCTA CTTGTTTGTA TAAATTATTG AAATCCATTT 240
 GCACCCTGTA AGAATGGACT TAAAAGTACT GCTGGACAGG CATGTGTGCT CAAAGTACAT 300
 TGATTGCTCA AATATAAGGA AATGGCCCAA TGAACGTGGT TGTGGGAGGG GAAAGAGGAA 360
 ACAGAGCTAG TCAGATGTGA ATTGTATCTG TN 392

SEQ ID NO:1806
 LENGTH:389
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02054

SEQUENCE DESCRIPTION:

GATCCTATTT GGTATGTTTT TGTCCACTGT TATGATTCAT CATGTATCTT ACAAGAGCCA 60
 CTCAAGCAAG ACTCTGCTTC TATGTATGGT GAGGCCTTGT TGTTCAGGC TAGAATAAAC 120
 TCTTTGTATG CCTCAGTGAA TATGCCAGGT AAAATATATG CAGTCAAGAA TGAATTATTT 180
 TTCTGACTAA AGTGTGTAGC AGTAAGTTCA AAATNGTGCC CTTGTTTTAA CAGTTTCTGT 240
 CAACATCTTC TCATTTTTCC CTACAAAAAC ACCAGGGTGT ATTATAAGTA CTGCCTGTGA 300
 GAATTTGCAC TTTATGTATT TGTGTGTGGG ATTTCTTGTG GTTTTAGCCA AATGAAGTGT 360
 TATCNNTAAT AACCAGGTCT CTTCATAAA 389

SEQ ID NO:1807
 LENGTH:388
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02055

SEQUENCE DESCRIPTION:

GATCCAATTG ATGTATATGT TTATATACTG GGTTCTTGTT TTATATACCT GGCTTTTACT 60
 TTATTAATAT GAGTTACTGA AGGTGATGGA GGTATTTGAA AATTTTACTT CCATAGGACA 120
 TACTGCATGT AAGCCAAGTC ATGGAGAATC TGCTGCATAG CTCTATTTTA AAGTAAAAGT 180
 CTACCACCGA ATCCCTAGTC CCCCTGTTTT CTGTTTCTTC TTGTGATTGC TGCCATAATT 240
 CTAAGTTATT TACTTTTACC ACTATTTAAG TTATCAACTT TAGCTAGTAT CTTCAAACCT 300
 TCACTTTGAA AAATGAGAAT TTTATATTCT AAGCCAGTTT TCATTTTGGT TTTGTGTTTT 360
 TGGGTTAATA AAACAATACT CAAATAAA 388

SEQ ID NO:1808
 LENGTH:379
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02056

SEQUENCE DESCRIPTION:

GATCTTTTCC ACCAGCACCC AGAGTGTCTT CTTTCTGGGC AAGGTCGTCG ACCCCACGAA 60
 ACCATAGCCC TCCCAGGGCT GCTCATCTGT TCCAAGCAGG AGGATGTGGC AGGGGAGGGC 120
 TGGGAGTGAG TAGCTCTGTG TTTAGAGTTG GGGACAAGGA TGACACCGAA GTCCAGGAGT 180

CCAGGACAGC AGGTGCTGGC CGGTGGGGAG CGGGGAGGGG CACTGAGATG GGCAGGGCCT 240
GGACATTCCA CACCCTGGTG CTGTGCAGCC TCTGGCAGAG CATCCGACCT CTTGGAGCAA 300
GTTTCTGCCT CTGGAAAGGG GGCGGGCCCT TTTCACAACA GGCTGGTTTG TACCGAGTAA 360
ACAACACGNT GCCATGAAA 379

SEQ ID NO:1809

LENGTH:379

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02057

SEQUENCE DESCRIPTION:

GATCCTAGGG GGTTTTGTTT GGTTTTNAAT TGTGAGGAAT AAAAAATNTT CTGCCCACAC 60
TGGCATTTTA AGGTGACTGA GGTCAAACGT TGTTCCTTA GGTGAAATA GCAGCCAAAA 120
CATTCTTNAC GCAGGGGCTT GGGATATGGC TGCTGGCAAC ACATTTTGTT GTGGGCTCCT 180
TAATTTAATG ATAAAATTTA AGCTAAACAC AAGCCAAAAA TGAATAGGTT TTTTNAATTT 240
TNATTTTTC CTAACAGGC AATTGAAATA CATGGTACAA AAATAAGTGG TAAGATAATT 300
GTAAATGGA AATGGGCAGA NTATTCAATT TTCCATCTAT GNAAATTTTC NCATTAAAAAC 360
TCATAGNTTT CTTTGNAAA 379

SEQ ID NO:1810

LENGTH:358

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02058

SEQUENCE DESCRIPTION:

GATCNGTTCA GCCCTGAAAA GTCCAAACTC CCAGGTATTG TTGCAGAAGG NCGAGATGAC 60
CTCTATAAAT CAGATGCATT CCATAAGGCA TTTNTTGAGG TAAATGAAGA AGGCAGTGAA 120
GCAGCTGCAA GTACCGCTGT TGTGATTGCT GGCCGTTTCG TAAACCCCAA CAGGGTGACT 180
TTCAAGGCCN CCNGGCTTNA AAAAGTTTTT ATAAGAGAAG TTCCTCTGAA CACTATTATC 240
TTCATGGGCA GAGTAGCCAA CCCTTGTTGTT AAGTAAATG TTCTTATTCT TTGCACCTCT 300
TCCTATTTTN GGTGTGTGAA CAGAAGTAAA AATAAATACA AACTNNTNNC ATCTCAA 358

SEQ ID NO:1811

LENGTH:358

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02059

SEQUENCE DESCRIPTION:

GATCGTTTCT NATCTCNAAG TNCCTCATTG AGNTCGGTGC ATCTGGCCAN TGAGTCTGCT 60
GAGACTCTTG ACAGCACCTC CAGCTCTGCT GCTTCAACA ACAGTGACTT GCTCTCCAAT 120
GGTATCCAGT GATTGTTGA AGAGGAGGTG CTCTGTAGCA GAACTGAGC TCCGGGTGGC 180
TGTTTCTCAG TGTTGTCTC ATGTCTCTTT TTCTGTCTTA GGTGGTTTCA TTAAATGCAG 240
CACTTGGTTA GCAGATGTTT AATTTTTTTT TTAACAACAT TAACTGTGG CCTCTTCTA 300
CACCTGGAAA TTTACTCTTN GAATAAATAA AAACGTTT GNCTTGNCT TCTGCAA 358

SEQ ID NO:1812

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02060

SEQUENCE DESCRIPTION:

GATCTATACT AGATAATCCT AGATGAAATG TTAGAGATGC TATATGATAC AACTGTGGCC 60
ATGACTGAGG AAAGGAGCTC ACGCCAGAG ACTGGGCTGC TCTCCGGAG GCCAAACCA 120
AGAAGGTCTG GCAGNNNTCA GGCTCAGGA GACTCTGCC TGCTGCAGAC CTCGGTGTGG 180
ACACACGCTG CATAGAGCTC TCCTTGAAAA CAGAGGGGTC TCAAGACATT CTGCCTACCT 240
ATTAGCTTTN CTTTATTTTT TTAACTTTTT GGGGGGAAAA GTATTTTAA GAAGTTTGTG 300
TTGCAATGTA TTTATAAATA GTAAATAAAG TTTTACCAT TAAA 344

SEQ ID NO:1813

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02062

SEQUENCE DESCRIPTION:

GATCCAGTAG TAGAGACATC ATCGGTCCAA AAGACTTTGC ATCTCATTAG TTGTCCATAG 60
TGACTACCAG GAGGTGGCTG GCATCTATAA CGTGTGGGAC GTTTTATGT AAAGAACTGC 120
CTGTGTTTTT TTTTNAACC AAAGACACTG NCCATAGATT GACTTATACT TTTATAAGTC 180
TAATTGAAAT ACTTGGGGTA CTATGAAAGG NCTGTNCCTT GNGTGGCTAC GATTAGAAAA 240
TCAGGNCTAA CAAACTTTTC TTTGTCTGGA NGCATATATA TTTGTGATAT AATTTNAATA 300
TGTATAATTT TGGTTTAATA AATCAAATCT ATGCCAAA 338

SEQ ID NO:1814

LENGTH:336

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02063

SEQUENCE DESCRIPTION:

GATCCATAGA ATGGATACTG GGAGACAATT AGTAGACTTT GCTACAGGTA GCCAATAGCC 60
CAGCCTGCAG AGTCACGTCA GATATGAAAT CCCAAAGTTC CTCCTGACTA TTGGCAACAA 120
CAATCACTAA CTGCTACTAC AAAAAGGTAA AACAAAAATG AACTTACACT TTCAAAATAT 180
CATTGATGTA TATTAAACAA ATACTTCTTG AGTGTCTACC CAGTGCCAGA CAGTGGTCTA 240
GGTTCTGGGA GGTACAGCAT CGTGGGCCAC ATGGTTAGAA GCTGAGTGTT CCTAACAAGG 300
AGGCTGATTT TGCTGCTCTA CTTTGCACTG GTTAAA 336

SEQ ID NO:1815

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02064

SEQUENCE DESCRIPTION:

GATCTGGATG TGGATGATGC GCCTGGAAAC AGTCAGCAGG CAACTCCGAA GACAACGAGA 60
 TAAGCACCTT TCACAACCTC GGGAACGTTC ATTCCTCCGCT GAAGCTTCTC ACCAGCATGG 120
 CCATCTCGGT GGTGTGCTTC TTCTTCCTGG TGCCTGACT GCCTGGTGCC CAGCACATGT 180
 GCTGCCCTAC AGCACCTGT GGTCTTCCTC GATAAAGGGA ACCACTTTCT TATTTTTTTC 240
 TATTTTTTTT TTTTNGTAAN CCGGNANACC TCCTCCAGCC ATGAGGNNGG GGNNTANCCA 300
 NGTGTNATGT TTNGGAAANN NAAATGGNAT CTTTN 335

SEQ ID NO:1816

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02065

SEQUENCE DESCRIPTION:

GATCCATGTG TAATATCACA AGAAATTATG GAAAAATATA ACATAAAATT AAAGTGGACA 60
 AACCAACAAA AGCTTTATTC AAGAACAGGT GACATAGTTG AATTGTGTTG TAAATCTGGA 120
 TATCATCCAA CAAAATCTCA TTCATTTCGA GCAATGTGTC AGAATGGGAA ACTGGTATAT 180
 CCCAGTTGTG AAGAAAAATA GAATCAATGG CATTACTATT AGTAAAATGC ACACCTTTTT 240
 CTGAATTTAC TATTATATTT GTTTTCAATT TCATTTTTC AGTACTGTTT TACTCATTTT 300
 TATTCATAAA TAAAGTTTTG TGTGATTTG TAAAA 335

SEQ ID NO:1817

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02066

SEQUENCE DESCRIPTION:

GATCTTGATG CGGGACTTCA GTCCTAGTGG CATTTTCGGA GCGTTTCAAA GAGGTTACTA 60
 CCGNNACTAC AACAAGTACA TCAATGTGAA GAAGGGGAGC ATCTCGGGGA TTACCATGGT 120
 GCTGGCATGC TACGTGCTCT TTAGCTACTC CTTTTCCTAC AAGCATCTCA AGCACGANC 180
 GCTCCGCAA TACCACTGAA GAGGACACAC TCTGCACCCC CCCACCCAC GACCTTGGCC 240
 CGAGCCCCTC CGGNNGGAAC ACAATCTCAA TCGTTGCTGA ATCCTTTCAT ATCCTAATAG 300
 GAATTAACCT CCAAATAAAA CATGACTTGG TAAA 334

SEQ ID NO:1818

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02067

SEQUENCE DESCRIPTION:

GATCCAAACA TGAAAGCTGG AGCTACAAGT GAAGGCGTTC TGGCAAATTT CTTCAACAGT 60
 TTGTTGAGTA AAAAGACTGG CTCTCCAGGA GGCCCTGGTG TGAGTGGTGG TAGCCCTGCA 120
 GGTGGGGCTG GAGGTGGAAG CAGTGGTTTA CCACCATCCA CAAAAAGTC AGGCCAGAAG 180
 CCTGTCTTAG ATGTTTCATGC AGAACTAGAC AGAATTACAC GAAAACCAGT TACAGTTTCT 240
 CCCACAACAC CTACATCTCC TACGGAAGGA GAAGCTTCTT GAAGATACCA AATAAAGCCA 300
 TTTATTCTGT TTTCTGGGNT AATGTAAA 328

SEQ ID NO:1819

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02068

SEQUENCE DESCRIPTION:

GATCGGGGCT GCTTATGCCT TTCGTTTATC CTTGGGGTTT GAGAGCGCTG TATTTGGGAG 60
AGAGTTTAAA AATACATTAG GAGAGAGAAA CCATTAAGAG TTTCCTGTC AGAGATATTG 120
TAGGTGCTAA TACTGGATTT CGTCTCANAT TTAATTCTT TNATGGGTCT GTTAGTCATT 180
CANCAAATCC CATAAGTATG TGTTAATATT TNAATTGTGT AAAACTCATT TGTTACTTTA 240
CAGCCTGTAA TAGTGTGTCT GCATTNCAA CCTGTTGCAA TAACTTTNCT GAAATATTAA 300
CACATTAATA AAACCTTTCT TAAACAAA 328

SEQ ID NO:1820

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02069

SEQUENCE DESCRIPTION:

GATCAGAGAA GAGGCTACTG GGGGAGAATT CAGTGCCCCC TTCGCCCTCT AGGGNGCAGA 60
CCTCCACTGC CATTGTCTCTG TNAGCCGCCA AANACCCAC GGGGTGCCCG CATGTCCCTG 120
TCTANNNGCA GCCCAGGGCC CCCACTCCTG GCTCCTNACA CTTGCCCTCC CTATGGCCGC 180
TCTCCAGACC CTCCTCCTTT CTTCTCCCCA CATCCGCACC TGCTGTTCCC ACTCTGGGGT 240
TCTCAAGTCC ATGAACAGAT ATTGTTGCAT TTTCCACAAT GCTGATTAAA CATAATAAAC 300
AATCCAGAAA AGCAGTTTTG CCCAGAAA 328

SEQ ID NO:1821

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02070

SEQUENCE DESCRIPTION:

GATCCAAAAG CCAGTCTCAG GAGTTTACCC CTGGGATGGG GGATGCATCT NCACCTGACT 60
TTGGGGCCAC GTGCCCTGTG GCACCCAGC TCACTGGGAG TCTCAGGAGG GATAACCGGA 120
TTTNTGCTCT TTCCCCTGTC ACTCCACAT CACACAGAAA AATGGCATTCT CTCTCTGTCT 180
CTCCCTGGCA TGGAGAGGGC AGACTGTGCA CATTTCTACTA GGGTCCAAAT ACAGAAGGGC 240
CCAGGGCCCA GGGGCTTGCA GCTTCGTGAG GGGTCTCTGG CCCAGTTTCC AATGAATAAA 300
GTTCTCTTGA CAGCTCAAA 319

SEQ ID NO:1822

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02071

SEQUENCE DESCRIPTION:

GATCATCAGA TGGTCGAGTA CTCTTGAAT GTCTCTTGC TGTTTACTGT GGCCTCTTTA 60
 CAATGGTGAG ACTTATTTCT ACCCTCTACT TTCCACTATT ATNTTTTCC CCTATTGGAT 120
 AATACTAGTC TGAGCAGCCC TAATACTAGA TGTACCTAAA CAGAGATACA AGCCAAGTCA 180
 TTGTTCAAGTG TAGTCATTTT TTAGTATCTG TTTATATTTT GTCACACATC AGAATGTATA 240
 TTTTATAGAG CATGTGTTTG TCTACTNGTT TGTCTACTAT AATATGTCTT TAATAAAGCT 300
 AAAANCATTC TGAAG 315

SEQ ID NO:1823

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02072

SEQUENCE DESCRIPTION:

GATCGCTTTT TTGCCGCTCA TATTTGAATG CATTGGGTTT CCTGGACCAG CTATTTGCAC 60
 AAGACTAGGG GGAGGTTGAG GGTGGGCATA GCAGGCAGGG GCTGGGATAG ACATTCAACC 120
 TAGCTNNNT TCATGCTCTT AAGGCTTTAT TTTCTAGAA TGCCAAGAAA CCAACTTTCT 180
 TTAAACATGA CTCATCTCTT CGATTTTCTT GTATAGGTCT TCCTCCCACC CCAAATCTAC 240
 ACTTGTTAGA AACAGAATAA TTACCTTTGC TTACTCCATT ATCAACACTT GGAGATAGAG 300
 ACTTTACACT TCAGN 315

SEQ ID NO:1824

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02073

SEQUENCE DESCRIPTION:

GATCGAAAAG GGACCTGCT TCCAATTTCC CTCTTCCATT CCTCGAGCTA CTCCAGGGCT 60
 TAGAAGAATG CTCTGGTCT GTGGGTCCAG TGTTGTCTGT CATCCATTTA AGTGTTCCTA 120
 CTTTCAAGTG ACAATCCTCT CCTTGGCCCT GCCATAGGGC AGAGCATGTN TGGCATAGCA 180
 GCCTGACTTT NATGCCCTAA TCTTGAGTTG AGGAAATATA TGCACAGGAG TCAAAGAGAT 240
 GTCTTTATAT CTGACTGTAT ATAAATGAAG TTTTNGTT TTTTNGTT TCCTTTTGG 300
 TGCAATAAAG TTTGTTTGG CAGAAGGAGA AA 332

SEQ ID NO:1825

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02074

SEQUENCE DESCRIPTION:

GATCAAGGCG CGGACGCTAT CTACGACCAC ATCAACGAGG GGAAGCTGTG GAAACACATC 60
 AAGCACAAGT ATGAGAACAA GTAGTTCCTT GGAGGCCCCC ATCCAGGCCA GAAGGACCAG 120
 GTCCACCCAG CAGCTGTTTG CCCAGAGCTG GAGCCTCAGC TTGAAGATGA TGCTCAAGGT 180
 ACTCTTCATG GACCACCATT CGCTGTTGGC AAGAAACGGC TTTACTTACA AAACAGACTC 240
 TTTACCTTCT GCTGTGTTTG AAGTATGTTT AGTCAGCATG CTCAGGAAAT AAATGTGAAT 300

TGCCCTTGAA A

311

SEQ ID NO:1826

LENGTH:309

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02075

SEQUENCE DESCRIPTION:

GATCTAGTGT TTGGAACGGA CGTTACCTGC TGGTTTGTGC ACAACAGTGG AAAAGGATTC 60
ATTGACGGGC ATTACAAGGA TTACTTCGTG CCTNAGCTCT ACAGCTTTCT CAAACGGCCT 120
TAAAGGTTTA TAGTTTGGGA AATTATATAT TATTATACAT CTTTCCCTG TCACTTTTGC 180
AGATATTCTT CGGTNCCNAT AATTAATG AACCAGATAT CAGGGTGGTT AATTAATG 240
AACCAGATAT CAGGGTGGTT TATAAGCCT GTAAACACAC CTNAGAAAAT ANACATTTTA 300
CANATGAAA 309

SEQ ID NO:1827

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02076

SEQUENCE DESCRIPTION:

GATCATGAAT AACTGATTAG TAAGTCTTGC CTATATTTTC CTGATAGCAT ATGACAAATG 60
TTTCTAAGGT AACAAGATGA GAACAGATAA AGATTGTGTG GTGTTTTGGA TTTGGAGAGA 120
AATATTTTAA TTTTAAATG CAGTTACAAA TTATAATGTA TTCATATTG TACTTTCTGT 180
TAAAATGCAT GATTGCAGAA TTGTTTAGAT TTTGTGTTA TTCTTGATGA AAAGCTTTGT 240
TTGTTCTTGT TTTTAAGTTT GCACTCAAAT CTTAAGAAAT AAATCCACCC ATGTTATCAA 300
A 301

SEQ ID NO:1828

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02077

SEQUENCE DESCRIPTION:

GATCAGTGAA CTCTGGTTTT AAGATAATCT GAAACAAGGT CCTTGGGAGT AATAAAATTG 60
GTCACATTCT GTAAAGCACA TTCTGTTTAG GAATCAACTT ATCTCAAATA GTAACTCGGG 120
GCCTAACTAT ATGAGATGGC TGAATAAATA CCACATCGTC TGTTTCACT AGGTGATGCC 180
AAAATATTTT GCTTTATGTA TATTACAGTT CTTTTTAAAA CACTGGAAGA CTCATGTAA 240
ACTCTAATTG TGAAGGCAGA ATCTNTGCTA ATTTTCAGA TTAATTTCT CTTTGAAA 298

SEQ ID NO:1829

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02078

00755

SEQUENCE DESCRIPTION:

GATCCCTTAT CCAACATGGT TCTAACCTTC AGTACTAAAG AAGATGCAGT TTCCTTTGCA 60
 GAAAAAATG GATGGAGCTA TGNCATTGAA GAGAGGAAGG TTCCAAAACC CAAGTCCAAG 120
 TCTTATGGTG CAAACTTTTC TTGGAACAAA AGAACAAGAG TATCCACAAA ATAGGTTGGC 180
 ACTGACTATA TCTCTGCTTG ACTGTGAATA AAGTCAGCTG TNCAGTATTT ATAGTCCATG 240
 TATAATAAAT ACATCTCTTA ATCTCCTAAT AAATTGGACC TTAAACTAC AAA 293

SEQ ID NO:1830

LENGTH:291

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02079

SEQUENCE DESCRIPTION:

GATCANNATT TGAAGAGGNT TTCTAGAAAT TNGGGGTAAG AAGTACTACC AAAATGTAAC 60
 TNCTAATCAA GGGTGATGCA CAGCAAAAGC AATGGACCCC ATCCCTCTAA AGCCTGCCCT 120
 CCTTTGCCCT CAACTGTATA TGCTGGGTAT TTCATTTGTN TTTTATTTT GGAGAAAGCG 180
 NTTTTAACTG CAACTTTCTA TAATGCCAAA NTGACACATC TGTGCAATAG AATGATGTCT 240
 GCTCTAGGGA AACCTTCAAA NGCANTAAAA ATGCTGTNTT GAAATGCCAA A 291

SEQ ID NO:1831

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02080

SEQUENCE DESCRIPTION:

GATCTGGGCC TGAATAAGGG TTATCGAATG GTGGTGAATG AAGGTCAGA TGGTGGACAG 60
 TCTGTCTATC ACGTTCATCT CCATGTTCTN GGAGGTCGGC AAATGCATTG GCCTCCTGGT 120
 TAAGCAGGTT TTGGGGATAA TTTTCTCTTC TTTAGGCAAT GATTAAGTTA GGCAATTTCC 180
 AGTATGTAA GTAACACACT TATTTTGGC TGTNTATGGA GAGATTCAAG AAATAATTTT 240
 AAAACCGCAT ACATAATAAA AGACATTGTT GCATGGCTTA TAGTCAAA 288

SEQ ID NO:1832

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02081

SEQUENCE DESCRIPTION:

GATCCAGCCT TAATNTTTT CTGACATCCT AGTAATAGCA GACCCTGCAC AAAGTGGATA 60
 TCAGACTTAA TACTGTNAGG AGACAAAATA ATGAGAATAG TTTTACCAA GATAATNAAA 120
 TCTCGCATCA TGTCTGCATT TTACCATAGA TTGGAGTGCA TCCTTAGGAA ACTGAATGTA 180
 ACAAAAACCC AGGACATTTT TGGAAATTGT ATGCTCTCTA GCAACTTTGT GTGAATTTT 240
 ATACAAACAC TGTTCTATGA GTTATATAAA ATGTTATAAA ACTAGAAA 288

SEQ ID NO:1833

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02082

SEQUENCE DESCRIPTION:

GATCCTGAGA ACTTCAGGCT CCTGGGCAAC GTGCTGGTCT GTGTGCTGGC CNNNCACTTT 60
GGCAAAGAAT TCACCCACC AGTGCAGGCT GCCTATNAGA AAGTGGTGGC TGGTGTGGCT 120
AATGCCCTGG CCCACAAGTA TACTAAGCT CGCTTCTTG CTGTCCAATT TCTATTAAAG 180
GTTCCTTTGT TCCCTAAGTC CAACTACTAA ACTGGGGGAT ATTATGAAGG GCCTTGAGCA 240
TCTGGATTCT GCCTAATAAA AAACATTTAT TTTCATTGCA AGAAA 285

SEQ ID NO:1834

LENGTH:282

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02084

SEQUENCE DESCRIPTION:

GATCTCATGG GCTTCCCTG GAGGAAAGGT TTTTTTGTGTT GTTTTTTTTT NAAGAACTTG 60
AAACTTGTAACAAAGAGATG TCTGTAGCTT TTTNCCCAT CTGTAGTGTA TGTNAAGATT 120
NCAAAACCTG AGAGCACTT TCCTTTGTTT AGAATTATGA GAAAGGCACT AGATGACTTN 180
AGGATTTNCA TTTNCCCTT TATTGCCTCA TTTCTGTGA CGCCTTGTTG GGGAGGGAAA 240
TCTGTTTATT TTTNCCTACA AATAAAAAGC TAAGATTCTA AA 282

SEQ ID NO:1835

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02085

SEQUENCE DESCRIPTION:

GATCTTAAGC TTTGATAAGA GCTGTGCTGT GGCTGAGTAT GGTGTGTATG TGAAGGTGAC 60
TTCCATCCAG GACTGGGTTC AGAAGACCAT AGCTGAGAAC TAATGCAAGG CTGGCCGGAA 120
GCCCTTGCCT GAAAGCAAGN CTTAGCCTG GAAGAGGGCA AAGTGGACGG GAGTGGACAG 180
GAGTNGATGC GATAAGATNN GGTTTGAAGC TGATGGGTGC CAGCCCTGCA TTGCTGAGTC 240
AATCAATAAA GAGCTTCTT TTGACCCAAA AAAANTAAA 279

SEQ ID NO:1836

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02086

SEQUENCE DESCRIPTION:

GATCCATAGT GCTACCTGCA CCTCTGGATT CTGGATTCAC AGACCAAGTC CAAGCCCGTT 60
CTTACGTGCG CATAAAGGCC CCCGAACGGC ATTCTCGGTA CTTCTGTTTG TTTTGTACA 120
TTTNATTAGA AAGGACTGTA AATAGCCAC TTAGACACTT TACCTCTTCA GTATGCAAAT 180
GTAATAAAT TGTAATATAG GAAATCTTTT GTTTAATAT AAGAATGAGC CTGTCCAATT 240
TCTGCTGTAC ATTATTAATA GTTTTATTAC ACAA 275

SEQ ID NO:1837

LENGTH:269

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02087

SEQUENCE DESCRIPTION:

GATCCGAAGA GGAACCTCTG GTCATCTTTA ACAAGAAAAT CAGCAAGAAC CCTACCTTTA 60
AGTTATTAAA GGACAAAGTC AAGCTTGTGA AATGAACATT TGTGTATTTA AAANTTGAAT 120
CCATTCTGCT GACTTCTTAC TTTCAGTCT GTTTATAAAA TGTGTAATGA ATTCTAACAA 180
CTCAAAATTTT GCTTTTTGAC GCNGTATTTT TANGTTANGN AAATATATTT NTGGTATAAC 240
TTTTATGCGA NAAATAAAAT ATATTCTGN 269

SEQ ID NO:1838

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02088

SEQUENCE DESCRIPTION:

GATCTCATTG TTTATTAACC TGTATTCTGT TTACATGTCT TTAACACAGT GGTTCTTAAA 60
TTGTAAGCTC AGGTTCAAAG TGTGGTAAT GCCTGATTCA CAACTTTGAG AAGGTAGCAC 120
TGGAGAGAAT TGAATGGGT GCGGTAATT GGTGATACTT CTTTGAATGT AGATTTCCTA 180
TCACATCTTT AGTGTCTGAA TATATCCAAA TGTTTATAGGA TGTATGTTAC TTCTTAGAGA 240
GAAATAAAGC ATTTTGGGA AGAATAAA 268

SEQ ID NO:1839

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02089

SEQUENCE DESCRIPTION:

GATCTATCTA AATATATTAA GTAAAATTAC ACCATTCACT TGTGGGAAA ATAATCTTTG 60
GTTTGAAGA TATTAACATA ATGGGCATCT TAGAATCATA AATCACATGA AATGAGAGAC 120
AATGCAATAT TGTATAATTC CTGGATGATG CAATTGTTTT AATTGANTTT TCAAGTGCCA 180
TTATAAAGTT TTAATAATTA TCAATATGAG TTGGTGCCCT ATTTTNNNTT TCCTAAAAAT 240
AAAATTTTTC CTTTTTATGA GTAAA 265

SEQ ID NO:1840

LENGTH:261

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02090

SEQUENCE DESCRIPTION:

GATCATAAAA CCTTCATTCC ATAGGTACCC TTTATCCTCA CAGATACAGA GACACCAAGA 60
AGAATCTGGA CAAATAGGAC TTGCTAAGTT CTCCACAGTT TATTACCATT AGATTATGTC 120

CTTTGTNCT CTGATTATAC TTCTGCATAA GACTGTACAT AAAANTACAC AAGTTTTCCT 180
ATTTNTTTT TGTCTTCATT TCTGAAGATT CCTGTCATGT AAAACTTACA GTAAATAAAT 240
GTGTGTGCTT TTNTCAATAA A 261

SEQ ID NO:1841

LENGTH:263

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02091

SEQUENCE DESCRIPTION:

GATCAGGTTA GGGCGAGCGC TACCTCTCCA GCCTCAGCTC TCAGTTGCAG CCCTGCTNAT 60
GCCTGCTTGG ACTTGGCCCC TGCCACCTCC NGCCTCAGGT GTCCGCTATC CACCAAAAGG 120
GCTCCCTGAG GGTCTGGGCA AGGGACCTGC TTCTATTAGC CCTTCTCCAT GGCCCTGCCA 180
TGCTCTCCAA ACCACTTTTT GCAGCTTTTT CTAGTTCAAG TTCACCAGAC TCTATAAATA 240
AAACCNGACA GACCATGAAC AAA 263

SEQ ID NO:1842

LENGTH:264

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02092

SEQUENCE DESCRIPTION:

GATCAGAAAG AAACCTTTTG TAGCAATATC AAGAATCTAG TTTCATCTGA GAACTTCTGA 60
TTAGCTCTCA GTCTTCAGCT CTATTTATCT TAGGAGTTTA ATTTGCCCTT CTCTCCCCAT 120
CTTCCCTCAG TTCCCATAAA ACCTTCATTA CACATAAAGA TACACGTGGG GGTCAGTGAA 180
TCTGCTTNAN NATCCTGAAA GTTTCTGGGG CTTAAGATTC CAGACTCTGA TTCATTAAAC 240
TATAGTCACC CGTGTCTGT GAAA 264

SEQ ID NO:1843

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02093

SEQUENCE DESCRIPTION:

GATCAAATGT CACACAGCAG TTTCTTGCA ACACTTTCAG CTCCCCATGC TCCAGAATAC 60
CCACCCAAGA AAATAATAGG CTTTAAACA ATATCGGCTC CTCATCCAAA GAACAACTGC 120
TGATTGAAAC ACCTCATTAG CTGAGTGTAG AGAAGTGCAT CTTATGAAAC AGTCTTAGCA 180
GTGGTAGGTT GGGAAGGAGA TAGCTGCAAC CAAAAAGAA ATANATATTC TATAAACCTT 240
CAGAAA 246

SEQ ID NO:1844

LENGTH:243

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02094

SEQUENCE DESCRIPTION:

GATCTGTGTG CATGNTGTG TTTGTGTATA TATACATATC TAGGGCTAGT ACTTAGTTTC 60
 ACACCCGGGA GCTGGGAGAA AAAACCTGTA CAGTTGTCTT TCTCTNATTT TNAATAAAAT 120
 AGAAAAATCG CGCACTTGCG GTCCCCCCCC CACCCCTTT TTTAAACAAG TGTTACTNNN 180
 NCCGGGAAAA TTTNCTGTC TTTGTAATTT TAAACTTTA AAATAAATTG GAAAAGGGAG 240
 AAA 243

SEQ ID NO:1845

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02095

SEQUENCE DESCRIPTION:

GATCTAGTGA ACATTCGACC TCCATTACGG AGAGTTTCCT ATGTTTCACT GTGCAAATAT 60
 ATCTGCTATT CTCCATACTC TGTAACAGTT GCATTGACTG TCACATAATG CTCATACTTA 120
 TCTAATGTTG AGTTATTAAT ATGTTATTAT TAAATAGAGA AATATGATTT GTGTATTATA 180
 ATTCAAAGGC ATTTCTTTTC TGCATGTTCT AAATAAAAAG CATTATTATT TGCTGAGAAA 240

SEQ ID NO:1846

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02096

SEQUENCE DESCRIPTION:

GATCTAAGCA GCGTTCCCAC AGCCCCCTCT AGATTCTTGG AGTTCCGCAG AGCTTACTAT 60
 ACGCGGTCTG TCCTAATCTT TGTGGTGTTC GCTATCTCTT GTGTCAAATC TGGTGAACGC 120
 TACGCTTACA TATATTGTCT TTGTGCTGCT GTNTGACAAA CGCAATGCAA AAACAATCCT 180
 CTTTCTCTCT CTTAATGCAT GATACAGAAT AATAATAAGA NTTTCATCTT TAAATGAAA 239

SEQ ID NO:1847

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02097

SEQUENCE DESCRIPTION:

GATCCATCCT CTCTCCTAGC TGAGTAAATC CGGGTCTCTA GGATGCCAGA GCAGCGCACA 60
 CAAGCTGGGA AATCCTCAGG GCTCCTACCA GCAGGACTGC CTCGCTGCCC CACCTCCCGC 120
 TCCTTGGCCT GTCCCCAGAT TCCTTCCCTG GTTGACTTGA CTCATGCTTG TTTCACTTTC 180
 ACATGGAATT TCCAGTTAT GAAATTAATA AAAATCAATG GTTCCACAA A 231

SEQ ID NO:1848

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02098

SEQUENCE DESCRIPTION:

GATCCAAAAT GCTGACAGGT TCAAACAAAA TTGGAATTGA AAATCAGAGT GCGTTCAAGA 60
 GTATCAAACA ATACTATCTT GTTACTTGCT TATTACCTTA GTAGACTGGA AGCAACACTT 120
 CACACAAAAA AAGGGTTTGG ATGTAATTC GGATAAGAAG AGATGTTTCT GTAAAGTCTT 180
 TCCTGAGANG CATATTATTT GAGAAAAACA CATATTTCTG TTTTAGTAA A 231

SEQ ID NO:1849

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02099

SEQUENCE DESCRIPTION:

GATCTACCAT GTAAAATGTT GTAGAGATAG AGCCATATAA CGTCACGTTT CAAAAC TAGC 60
 TCTACAGTTT TGCTTCTCCT ATTAGCCATA TGATAATTGG GCTATGTAGT ATCAATATTT 120
 ACTTTAATCA CAAAGGATGG TTTCTTGAAA TAATTTGTAT TGATTGAGGC CTATGAACTG 180
 ACCTGAATTG GAAAGGATGT GATTAATATA AATAATAGCA GATATAAA 228

SEQ ID NO:1850

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02100

SEQUENCE DESCRIPTION:

GATCTACCGG CCCCCTGTTG GTGCCCTTGG GGA CTACCTC TCCTTCACCA TACCCCTGGG 60
 CACCCCCTGA CAACTTCTGC ACATACTGGG GCCCTGCTTA TTNTCCAGG ACAGGCTCCT 120
 TAAAGCAGAG GAGCCNGTNC TGGGAGCCCC TTCTCAAACT CCTAAGACTT GTTTTCATGT 180
 CCCACGTTCT CTGCTGACAT CCCCCAATAA AGGACCCTAA CTTTNGGNNN TNAAAA 236

SEQ ID NO:1851

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02101

SEQUENCE DESCRIPTION:

GATCTATGGT TTCTGCCTAC CCAGGATAGT CTTGTCTCTA GACAATGTAT TGATGATGCA 60
 AATGTTCTGG AACTAAATAG TGGTGATGGT GGCACAACAC TGTGAATGTA CTAAATGTCA 120
 CTGATTTGTA CGTATTTAAT ATGAATTAAA TGTTAAATG GTGAATTATA TTTATGTATA 180
 TTTNACCATA ATAAAAATAT GCATTGGAAG ATGCATTTTT TGTGAAA 227

SEQ ID NO:1852

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02102

SEQUENCE DESCRIPTION:

GATCTTTGGA CCAGTTTCTA GCAAAGTTGT GTTTGAAAGA TACTCTATTA AAGAAGACTG 60
 TGGAATCTTT TTATCGGTGC CCATTATATC CTTAAGTTG GATATTTAGC TGACCTTCGC 120
 TTTAACATAG GTCTAATTTA TTTGCCGTGT CATTTTCCAT ACAAATCAGT TGATTAAAA 180
 AAGTTCATTT CTCATACTGT GCATTAAAAAT AAAAATTTGA ACAATTAAA 229

SEQ ID NO:1853

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02103

SEQUENCE DESCRIPTION:

GATCTCCTGT TTTTTCAGG CTCCTAAAGT AACATCAGCC ATNTTNNAGA TTGGTTCTGT 60
 TTTTCGTACCT TCCCACTGGC CTCAAGTGAG CCAAGAAACA CTGCCTGCCC TCTGTCTGTC 120
 TTCTCCTAAT TCTGCAGGTG GAGGTTGCTA GTCTAGTTTC CTTTTGAGA TACTATTTTC 180
 ATTTTGTGA GCCTCTTTGT AATAAAATGG TACATTTCTA TAAA 224

SEQ ID NO:1854

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02104

SEQUENCE DESCRIPTION:

GATCAAGGCC GGACCCACT GCCCACTGC CCAACTGATA GCCACGCTGA NNGAATGGAA 60
 GGAAAAATTG CTTGGACCTG CAAGCCCCGC TGTACAAGAA AATAATTAAG AACTTTTGG 120
 AGAGTTAGCT ACTAGCTGCC TACGTGTGTN CATTTGCTAT ATAGCATACT TCTTTTTTCC 180
 AGTTTCAATC TAACTGTGAA AGAACTTCTG ATATTTTGTG TTN 223

SEQ ID NO:1855

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02105

SEQUENCE DESCRIPTION:

GATCCTAGTA ATTGCCTAGA AATATCTTTC TCTTACCTGT TATTTATCAA TTTTCCCAG 60
 TATTTTATA CGGAAAAAAT TGTATTGAAA ACACTTAGTA TGCAGTTGAT AAGAGGAATT 120
 TGGTATAATT ATGGTGGGTG ATTATTTTTT ATACTGTATG TGCCAAAGCT TTACTACTGT 180
 GGAAAGACAA CTGTTTTAAT AAAAGATTTA CATTCCAAAA AAACAAA 227

SEQ ID NO:1856

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02106

SEQUENCE DESCRIPTION:

GATCTATACA AAGTCTTTGA GAGGTGTAA ATATGGTTAT TTATGCACTG TGGGATGTGT 60

TCTTCTTTCT CTGTATTCCG ATACAAAGTG TTGTATCAAA GTGTGATATA CAANGTGTAC 120
CAACATAAGT GTTGGTAGCA CNTAAGACTT ATACTTGCCT TCTGATAGTA TTCCTTTATA 180
CACAGTGGAT TGATTATAAA TAAATAGATG TGTCTTAAA 219

SEQ ID NO:1857

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02107

SEQUENCE DESCRIPTION:

GATCAAGAAA GACAAAAAGC CAGCCTGCAG CAAGCACTTT GGAGAGCAAA TCTGNAAAGA 60
GAGTAACGCG GAGTGTCAAG AGGTGTGCAG AAAATCCAAA GAAGGCTGAG GACAATGTGT 120
GTGTCAAGAA AATAAGAACC AGAAGTCATA GGGACAGTGA AGATATTTGA CAGAAAAATC 180
GAACTGGGAA AAATATAATA AAGTTAGTTT TGTGATAAA 219

SEQ ID NO:1858

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02108

SEQUENCE DESCRIPTION:

GATCTGTCCG AACCAGGACA CAAAAGCAGC AAGAAGCGGG GAGAGAGAGG GATAGAAAAC 60
AAGCGCAGGA GAGCCTGCGA ACGCAAAANT GAATGAGGGC TTTTGTGGC TGGGGATGGG 120
TTTTGGTTTT GGGGTTTTTT TTTTNAATT GTTTTGAATT CGTACAGGGT ACTTTTTCCC 180
AACCTCATCT NTCAGAAATC CATGTGGGNT TCCTGGAAA 219

SEQ ID NO:1859

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02110

SEQUENCE DESCRIPTION:

GATCTGAAGA AATTACCAAA CATTAAATG AGANAAATTT GCGCTAATGA TGCAATTCCC 60
AAGACGTGCA AGAGGAAAAC TATTATAACT GTAGACCAAG ATTTGGGGGA ATTGGAACTA 120
AACGATGAAT CAAGTGATTC AGATGAGGAA ATGACTGCAG TGGCCTAATT GTCTTCACTT 180
GAATTGAAAA TAAATAATTT GAGAGCTTCA AATTAAA 217

SEQ ID NO:1860

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02111

SEQUENCE DESCRIPTION:

GATCCATTTT TTAAAAATAC TGACATATAG AGTTGTACCT TATATAGAAT ATAGTTGTAT 60
CTTGAAGTCA ACATATTAAA TTATTCTCAA AATTATGTAT TTNCAGATTG TACTTGTAAG 120

TTTCAAAGAA AAATTACCGT CTTTTCATAT TGACCTGGAA ACTAAATAGG ATGTGATTCA 180
GCTACATTAA TTTCTTAATA CAATCTAGGA AAGAAA 216

SEQ ID NO:1861

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02112

SEQUENCE DESCRIPTION:

GATCCTTTTC TTGAAAGAAT AACAGAAAAT GTGTCATCCA TTTTTCAGAA TATAACCACT 60
CAAGCTACTG GCACATAGTG AAAGATTACT TCTGACATTC CATNCTCTT CTTTGGAAAA 120
TTAGTATNGT AATTAAATGT ACTTTTGGAA AATTAATAGA ATTATTTAAA TTACAGTATA 180
TGTNGCAAAA TATATCACTT TTGATACAAT AAA 213

SEQ ID NO:1862

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02113

SEQUENCE DESCRIPTION:

GATCTATCTC ATCAAACAAC ACAATGAAGA TATTTTAGAG TACAAAAGAA GAAATGGGCT 60
GGAATAAACT TTTGAAACAC TAATGTAGTA TGCTCCGTAT AGTGATTGTA GCTGTTCCCTC 120
TGGATTCACC ATCTGTTGAG TTGTAAATGT GNGANAAAAA GTTATATGTG AATATATATC 180
AAGCCAGCAT TTGTATTTTG CATCATTAAT 210

SEQ ID NO:1863

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02115

SEQUENCE DESCRIPTION:

GATCGGGGCT GCCAGAGGGN TAGAAGCGAG GGCACCAGCA GTTGTGGGTG GGGAGCAANG 60
GAAGAGAGAA ACTCTTCAGC GAATCCTTCT AGTACTAGTG GAGAGTTTGA CTGTGAATTA 120
ATTTTATGCC ATAAAAGACC AACCCAGTTC TGTTTNNNNC TGTAGCATCT TGAAGAAGAAA 180
AATTATAATA AAGCCCCAAA ATTAAGAAA 209

SEQ ID NO:1864

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02116

SEQUENCE DESCRIPTION:

GATCTGGAGC AACAGCTAGG AAATATCATT AATTCTGCTC TTCAGAGATG TAAAAAATAA 60
ATTACACGTG GGAGCTTTCC AAAGAAATGG AAATTGATGG GAAATTATTT GTCAAGCAAA 120
TGTTTAAAAT CCAAATGAGA ACTAAATAAA GTGTTGAACA TCAACTGGGG AATTGAAGCC 180

AATAAACCTT CCTTCTTAAC CATTCAAA

208

SEQ ID NO:1865

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02117

SEQUENCE DESCRIPTION:

GATCTATACT TAGAATGCAA TGTNGACAGA GGGCAGTTAA AATATCCAAG ATGTATTCCA 60
AGACAAAGCA AACAAACAAC TGGAAAGTGGT AATCAATTCA ACAGGCCTTC TGAATTNTCT 120
GAAGCNAAAG CAACGTTTGC CATNNGATAT TTGTGACACT TTGGCAAATG GAAAAATAAA 180
CCAATTTATA CGTGCAATAA A 201

SEQ ID NO:1866

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02118

SEQUENCE DESCRIPTION:

GATCATGAAG GTATCCACAC TTCCCCTTGC ATTCCTTCT TAACTCTCTG TTACACGTCA 60
TTGAAACTAC ACTTTTTTGG TCTGTTTTTG TGCTAGACTG TAAGTTCCTT GGGGGCAGGG 120
CCTTTGTCTG TCTCATCTCT GTATTCCCAA ATGCCTAACA GTACAGAGCC ATGACTCAAT 180
AAATACATGT TAAATGGAAA 200

SEQ ID NO:1867

LENGTH:202

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02119

SEQUENCE DESCRIPTION:

GATCACATTT TGAAATGCCT AAAAGACTTT ATTGTTCTAA TTATCCAGAT GTACCTTTGT 60
AAAATAGCTC TTTTATGAAT TAGCTGATAA GGCTGTATGT TTCTGGAACA AAATATTGGT 120
CATCTAAAAN CTTTCTGTTT NCTGGGGTCT GGGAAAATAG AAAATAAGAT TTCAAATATT 180
AAATAAGCTT AANGGCACCA AA 202

SEQ ID NO:1868

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02120

SEQUENCE DESCRIPTION:

GATCAGGCCC TTCTTCCCAC AGCAATAGTC CCCAATACGT AGATTTTTGC TCTTCTGTAT 60
GTGACAACAT TTTTGTACAT TATGTTATTG GAATTTNCTT TCATACATTA TATTCCTCTA 120
AAACTCTCAA GCAGACGTGA GTGTGACTTT TTGAAAAAAG TATAGGATAA ATTACATTAA 180
AATAGCACAT GATTTTCAAA 200

00765

SEQ ID NO:1869
 LENGTH:194
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02121
 SEQUENCE DESCRIPTION:
 GATCTNTNTG TTCATTGTAT TCTTTTNTC TCAAGAGTTC CATTTAATGG AAATAAAACG 60
 GTATAATTAA TAATTGTCTA GGGGGGAAAA ATGAAGCAAA TNTCATTGGA TATTTTAAA 120
 GGTCTCCACA GAGTTTATGC CATATTGGAA TTTGTTGTA TAATTGTCAA ATAAATATTT 180
 TGGTGANGCA TAAA 194

SEQ ID NO:1870
 LENGTH:190
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02122
 SEQUENCE DESCRIPTION:
 GATCCAATAC TATTTAGTTT ATTATTGAAA TTGGAAGGAT TCATTGAGCA GCATAGAAGT 60
 TTGTTTACAT GTTACTTTGA GATGCTAGGT ATTTGTGGAA TTAAAAAGAA TCAGGCTCTT 120
 TTGTACTNAN TTTTAAATC TGTGATGCTT NTCAAATTA ATTCATAATA AATTGATGCA 180
 ATTCATAAA 190

SEQ ID NO:1871
 LENGTH:188
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02123
 SEQUENCE DESCRIPTION:
 GATCGAACAG TTTTGAAGCT ACTGTGTGTG TGAATGAACA CTCTTGCTTT ATTCCAGAAT 60
 GCTGTACATC TATTTTGGAT TGTATATTGT GTTTGTGTAT TTACGCTTTG ATTCANNAGT 120
 AACTTCTTAT GGAATTNATT TGCATTGAAC ACAAACGTGA AATAAAAAGA AATGGCTGAA 180
 AGAGCAAA 188

SEQ ID NO:1872
 LENGTH:184
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02124
 SEQUENCE DESCRIPTION:
 GATCCTATTT ATTTGTTTAG GCCATCTTTA ATTTCTTTCA GCAGTGTTTT GTAGTTTCCA 60
 TTAGAGATTT TCCATGTCNT TTGTTAAGTT TATTCCTAGG TATTTTATTT TTTATGGTAT 120
 TNTATTATAA TCCTNNGATG TCTATTATAT AGAAATATAA TTNATTTTNG TTATTGACTG 180
 NNNN 184

SEQ ID NO:1873

LENGTH:181

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02126

SEQUENCE DESCRIPTION:

GATCCAAGTN CTGACTTTTC CCCCTGACAG CTGTGTGACC TTCGTGAAGT CGCCAAACCT 60
CAAATGAGCC CCAGTCATTG CTAGTAAGAC CTGCCTTTGA GTTGGTATGA TGTTCAGTT 120
AGATAACAAA ATGTTTATAC CCATTAGAAC AGAGAATAAA TAGAACTACA TTTCTTGCAA 180
A 181

SEQ ID NO:1874

LENGTH:181

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02127

SEQUENCE DESCRIPTION:

GATCTTAAAT TTTCTCATCT CAAAAAATA TGTAAGTGA TAGATATGTT AAATAGCTNN 60
TATGTATTTT GCAATGTGTA GTGTATATAT ATAAACATCA CACAGTACAC CATAAATATA 120
TTTAATTTTT GTCAATTACT CTTTAAACCT TAATAAGTT GATAAACAT TCTTTTTTAA 180
A 181

SEQ ID NO:1875

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02128

SEQUENCE DESCRIPTION:

GATCAGGTTA GCAAATGATG TAAAAGAAGC TTTATTGTCT AGTTGTTTTT TTTCCCCCAA 60
GACAAAGGCA AGTTTCCCTA AGTTTGAGTT GATAGTTATT AAAAAGAAAA CAAAACAAAA 120
AAAAGGCAAG GCACAACAAA AAAATATCCT GGGCAATAAA AAAANTATTT TAAACCAA 179

SEQ ID NO:1876

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02129

SEQUENCE DESCRIPTION:

GATCCGGGAG CACACCGTTT CCTGATTGCT CAGGGACTCA TCTTCCCTC CTTGGTGATT 60
CCGCAGTGAG AGAGTGGCTG GGGCATGGAA GGCAAGATTG TGTCCCATTC CCCAGTGCG 120
GCCAGCTCCG CGCCAGGATG GCGANGGAAC TCAATAAAGT GCTTTGAAAA TGCTGAAA 178

SEQ ID NO:1877

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02130

SEQUENCE DESCRIPTION:

GATCATTCTC CGAAAGCAAC TCCTGACAAT TAAGCATTTT TTTCTCCAAA TACAAAGTAT 60
ATTCTCTTTA TTGGAAAATA AATTAATAAA TATATTCTGT ATTTNNCTC TCCGTGAAAA 120
ACAAAAGAGC CTCTGACATT ACTGTCTCTC AGTGTGGTT CAGATTGAGG CTTN 175

SEQ ID NO:1878

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02131

SEQUENCE DESCRIPTION:

GATCAATCCT TCTTATGTTT GCTTTAATGT GTATTGAAGA AAAGCACTTT TAAAAAGTA 60
CTCTTTAAGA GTGAAATAAT TAAAAACCAC TGAACATTG CTTTGTTC TAAAGTTGTT 120
CATATATG TAATTTAGCA GTCCAAAGAA CAAGAAATTG TTTCTTTCA AA 172

SEQ ID NO:1879

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02132

SEQUENCE DESCRIPTION:

GATCTGATTG TTTAAAAGTA CACAGCACCT CCCTCCCCAC TCTCTTTGC TCCTGCTTC 60
ATCAAGTGAA AACTCCCTGA GGCCTCCTCA GAAGCTGAGT AGAGGCCAGC ACTATGCTTC 120
CTGTACAGCC TGTGGAACCA TGAGGCAATT AAACCTCTT TCTTTATAAA 170

SEQ ID NO:1880

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02133

SEQUENCE DESCRIPTION:

GATCAGAAAA ATTCATCTTT TTTAACCTG CCCTAATTTT TCTTGAGGAA TTAAATAGAG 60
CAAATATTT TCAGGTATG CTTACAATAA AATATACTTA AGAAAATGAC TGAAGATGTA 120
TGTTTTTGAA TGTTTTGATT AAATAAATGT ACACATTTAG AACACAAA 168

SEQ ID NO:1881

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02134

SEQUENCE DESCRIPTION:

GATCAGCCTC CCTGTAAGCC AGTTATCAGT ATCCAAGTGC TTAAACACAG GCTTCTCAGA 60
AGAAATCATT TTTATTCCTA CCATTATTTT ATACCAAAGC ATCATTATGT GCTACAGTTC 120

CAATTTCTTA CACAAGAATG AAAAGGGTTA CCAATGCAGC AAGTTAAA

168

SEQ ID NO:1882

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02135

SEQUENCE DESCRIPTION:

GATCTTACTG TAAGTTGAAG GGAGTTTTC CCTAACTCAT GGATTGTGCA AGAATGAACT 60
GCTGTTGGGT TTGACTGACT GTCGATGGAT TGTGGTGTGG TGTATCTNAA GGCTATTGAA 120
TGCAACTTAC AATGCTTAGG TAAAAATCTT TATNCTTTTA GTATAAA 167

SEQ ID NO:1883

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02136

SEQUENCE DESCRIPTION:

GATCCTTGAT GAGCCAACAT TGCCTGTGG ATACATATCT ATGTTTACGC GCTATTAGAA 60
CAGAAGGCGC TGTATATAGA AATGTTGCTT TGAAGCAATA TTTGCAAAAC ACNCAGACTN 120
CAGNATCTGT ATTTGGAAAA AATAAAACAG GTTCTTGTTG CTAAA 165

SEQ ID NO:1884

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02137

SEQUENCE DESCRIPTION:

GATCTGACCT CCACGGAGCC GCTGTCCCCG NCCCCCTTGC TTCCCGTCTG TCTGTCCTGT 60
CTGATTCTNT TAGGTGTCAT GTTCTTTTTT CTGTCTTGTC TTCAACTTTT TTAAAACTA 120
GATTGCTTTG AAAACATGAC TCAATAAAAG TTTCTGNCC AATTAAAA 168

SEQ ID NO:1885

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02138

SEQUENCE DESCRIPTION:

GATCACGATG GCTTCACAAG CCAGCTGTTG GGTTTGCTAT GTCCTGTGG CTCAGTCACA 60
TCCCTGCGTG TATACTGTCT GCGGGGCACA TATGTATCCA TTTAGAGCTA AAGGAATCAG 120
TGTACACTAC AGCTAATCCT AATAAATCCG ATGTTTTCGG AAA 163

SEQ ID NO:1886

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02139

SEQUENCE DESCRIPTION:

GATCTAGCAG CATGCAAACA CATCACCTAA ACTACAAAAG AAAGGTCCTC ACTGTCTCTA 60
AAAAATAAAC TCATTAACCTT TGAGTTATTT GCAGACAGCC AAATCACCCA GGGCAACTTT 120
AAAGAGTCAG AAAATAAAAC TTTCCCGTTG TATGACAAA 159

SEQ ID NO:1887

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02140

SEQUENCE DESCRIPTION:

GATCATGGAG GAAAAAGGTA CTGGATAAAA GTAACTTCA AACCTTAGGG CGGGANACTA 60
AAACCAAAAT ACATGTATTA TTTATAGAAA ATATTTTCTG TTTTAATCTT TTCTNTTTAA 120
ACAAGGACTC ATACTTAAAA AAATGTTTAG CAAA 154

SEQ ID NO:1888

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02141

SEQUENCE DESCRIPTION:

GATCTCTGAT GACCTAACCT AAGCAAAACC ACTGAGCTTC TGGGAAGACA ACTAGGATAC 60
TTTCTACTTT TTCTAGCTAC AATATCTTCA TACAATGACA AGTATGATGA TTTGCTATCA 120
AAATAAATTG AAATATAATG CAAACCATAA A 151

SEQ ID NO:1889

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02142

SEQUENCE DESCRIPTION:

GATCTATATT CTTCTTAATT TTTATGGCTA TATTTAATGT TTTCCATCAT TGTGCCTTTA 60
AAAAGTATAT GTACATGTAT GCATAAATTT ATGTGAAGTT ATATATANGN NTCCGTTATT 120
CCAGATTAAA GTTTATCTTT AGTAATCAAA 150

SEQ ID NO:1890

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02143

SEQUENCE DESCRIPTION:

GATCAAAAAT ATGTGACCTT AATGAGATTT TTATGATTTT TAAAGTAACA ATAAAAGCAG 60
TTTTTAGAGT TGAGTTCCAG AGAGGGCAGG GCAATGGCAG TNACATGTTT GTCATTTTAA 120

TAATAAATAA CATCTATTGA GTNCTTAAA

149

SEQ ID NO:1891

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02144

SEQUENCE DESCRIPTION:

GATCCGCGGG GACCCTGCCG AGGGGGCTGT CATGCGGTTT CCAAGGTGCA CATTNCCAC 60
GGAAACAGAA CTCGATGCAC TGANCTGCTC CGCCAGGANA GTGAGCGTGT AGGTNCCTGA 120
GGAATAAAAT GTTCCGATGA TGTGGAAG 148

SEQ ID NO:1892

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02145

SEQUENCE DESCRIPTION:

GATCCCCGTT CTTCAAGCTT CTCTGCTCAG TGTCTACTAA CGACCGACAT TTGCTAATGT 60
AAATAATAGT AAATNATTGA GAATTCTAAT TCTTTTACAC AGTCTGTTTT TAATCTATTT 120
TAATTAAATA AAATCTATGA CTCTAAA 147

SEQ ID NO:1893

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02146

SEQUENCE DESCRIPTION:

GATCTGGGAG TAAACTTAAC ATTCAGTGTG TCTCTGCTCT GCATCCGCCA TTTGTGTGTG 60
TTTCTGGACT GTGGGCTGTG TGTACCTTGG TTGGTGACTC AGTGAGAAGA AGCAGGAATN 120
CCAAAGATAC TGTGAATNTT CTGAAA 146

SEQ ID NO:1894

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02147

SEQUENCE DESCRIPTION:

GATCTAAATG TCTAGTTTTG TATTCTTTTG TGTGTGTTCA CTGTTTCTCA GTATTACCAC 60
TTGAATAATT CTCTGTACAG GGGGGTTTGT GCTATACACT GGGATGTCTA ATTGCAGCAA 120
TAAAGCCTTT CTTTAAAAAG GAAA 144

SEQ ID NO:1895

LENGTH:141

TYPE:nucleic acid

00771

TOPOLOGY:linear

CLONE:HUMGS02148

SEQUENCE DESCRIPTION:

GATCTTGGA ATGCTTGAAG ACCACAAGGC TGAAAAGTGC TTTGCTGGAG TCCTGTTCTC 60
AGAGCTCCAC AGAAGACACG TGTTTTTGT TCTTTAAAGA CTTGATGAAT AAACACTTTT 120
TCTGGTCAAT GTCAAANNA A 141

SEQ ID NO:1896

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02149

SEQUENCE DESCRIPTION:

GATCCAGATA AACTTTCCTG TCATGTGTTA GAACTTTATT ATTATTAATA TTGTTAACT 60
TCTGTGCTGT TCCTGTGAAT CTCCAAATTT TGTACCTTGT TCTAAGCTAA TATATAGCAA 120
TTAAAAAGAG AGAAAGAGGA AA 142

SEQ ID NO:1897

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02150

SEQUENCE DESCRIPTION:

GATCAAAGTG TGGGATGNGC TGCAAGACGT AGAACCTACC TGCCCTGCCC CCGTCCCCNC 60
CCTTCCTTAT TTATTCCTGC TGCCCCAGAA CATAGGTCTT GGAATAAAAT GGCTGGTTCT 120
TTTGTTTTCC AAA 133

SEQ ID NO:1898

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02151

SEQUENCE DESCRIPTION:

GATCTAAGTT GCATCTTTAA TCCTGGTGGT CTTGCCTTCT GATTTTAAAT TTGTATCCTT 60
TTCTATTAAG ATATATTTGT CATTTTCTCT TGAATATGTA TTTAAATATC CCAAGCAATC 120
CAGTAACAAA 130

SEQ ID NO:1899

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02152

SEQUENCE DESCRIPTION:

GATCGAGGAG ATGCCCTCTG AACGCCTGTC CCGGAGCACC CGCCAGCGGG CAGCCTGTGC 60
CCAGCTCAAC GACTTCCTCC AGGAGTATGG CACTCAGGGG TGCCAGGTCN TNAGGGCTGC 120

CCTCCCACNN CCGCTGGGAG GAACCTNAAC CTGGGAACCA TGAAGCTGGA AGCACTGCTG 180
TGTCGCTTT NATGAACACA GCCTGGGACC AGGGCATATN AAAGGCTTTT GGCAGCAAAG 240
TGTCAAA 247

SEQ ID NO:1900

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02153

SEQUENCE DESCRIPTION:

GATCTTCCTG CTACCCTCTT GGATTCTAAG TGGTTCCAAG CTTAACTTGA GACCTTCCCT 60
TCAAATCTAA AATTGGCAAA AAGTCACTTA AAATAGTGGA CTTCTGTAAT AAAGGTTGCC 120
TAAAATAACA AA 132

SEQ ID NO:1901

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02154

SEQUENCE DESCRIPTION:

GATCTACAGG TTNCAATTCA ACCTGTTTCT AGGTTTTTTT GTAAATTTAG TTTTGATTAA 60
GCATTATAAG CATTTGAGTC TATAAACTTT ATAGTAGCAT CTTTCAGAAT AAACATTTT 120
AATTGAAA 128

SEQ ID NO:1902

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02155

SEQUENCE DESCRIPTION:

GATCCATGAG TTTGCCCTGG TTTCAGTGGC CCAAGTGGTT TGTGCTAACC ACGTCTGTCT 60
TCACAGCTCT GTGTTGCCAT GTGTGCTGAA CAAAAATAA AAATTATTAT TGATTTTATA 120
TTTCAGGGGA AA 132

SEQ ID NO:1903

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02156

SEQUENCE DESCRIPTION:

GATCCAAGAC AGAATAATGA ATGGACTCAA ACTGCCTTGG CTTCAAGGGA GTCCCCTCAG 60
GNCGTTGAGG ACTTTTCGAC CAATTCAACC CTTGCCCCA CCTTTATTAA AATCTTAAAC 120
AACGGAAA 128

SEQ ID NO:1904

LENGTH:126
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02157
SEQUENCE DESCRIPTION:
GATCCACAGG GGTGGTGTCA AATGCTATTG AAATTGTGTT GAATTGTATG CTTTTTCACT 60
TTTGATAAAT AAACATGTAA AAATGTTTCA AAAAAATAAT AAAATAAATA AATATGAAAC 120
CTTAAA 126

SEQ ID NO:1905
LENGTH:122
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02158
SEQUENCE DESCRIPTION:
GATCTACAGA TGAATATTTA ACTCAATAGA AAAATTATTT TAGAACACAT TGTATTGGTA 60
TTACAACCAG ATTATATTCT TGACGTTGAC TTCATTAAAA TTATCTACAA TTCCTAATA 120
AA 122

SEQ ID NO:1906
LENGTH:121
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02159
SEQUENCE DESCRIPTION:
GATCTCATGG ATACAAACAG GTGACCTTGC CAATTGGTGC TTTTGTGTG TTTAAGAAAA 60
GAACAGTAGT AACCTTGCTC CCTGGNTACC AATAAAAAAT CTATTATTTT TTAAAAGAA 120
A 121

SEQ ID NO:1907
LENGTH:119
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02160
SEQUENCE DESCRIPTION:
GATCTGACCC CTGTCAGATG NAAATGATTC ACAGCTCTGG CAGTTCCCAA GTCTGGGGAG 60
GGGTATAGGT TTGAAAGGCT GTTTGAAAGA GGAATGTTA ATAAAGGCTT TGATTAAAA 119

SEQ ID NO:1908
LENGTH:121
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02161
SEQUENCE DESCRIPTION:
GATCCCAGCT GGCCCTATG TTGTGTTCTG NACTGAGGC CTTGCTGTG AACTGCAGTG 60

TTTCATACGA ACCATCTTTC CTAGTGCATG AGAAATAAAG ATTATTTAAG TAATGAGGAA 120
A 121

SEQ ID NO:1909

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02162

SEQUENCE DESCRIPTION:

GATCTCACTT TTCAGGAAAC TTAAAATTTA CCCATTATTG GGAAGCTTAA ATGAATTGAA 60
GCTATGCAAG TCTTTTATAT TATTAAATAT TTAAAAGTAA ACCTGTACTA ATCAAA 116

SEQ ID NO:1910

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02163

SEQUENCE DESCRIPTION:

GATCGATATG CTCATAAAAG TGCTCAATTA TATTTNCTGT ATTTTGTATG NTGTATTTTC 60
CAAGACGTAT ATTATTTTAC TATTAAAGAA AAAAATCATT TTTTTTCCC GAGAAA 116

SEQ ID NO:1911

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02164

SEQUENCE DESCRIPTION:

GATCCGGGCA TGGGAGACCC CACTTTAGAA AGGGTCGTCA CTCCTTTAAT CCTCTACTCA 60
ACAATGTACT CTTTACTTTT TATATTAAAA AAAATAAAAT AAATATGTGC CTAAACCTC 120
CAAA 124

SEQ ID NO:1912

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02165

SEQUENCE DESCRIPTION:

GATCCACTTC TACTTAATGA GTAGTAAATA TATTCNTHH TCCTTATGAT TTTCTTACTA 60
TTTNCNTTAG CTTGCTTTAT TATAAGANTA TAGCATATAA TATAAATAAA ATAAA 115

SEQ ID NO:1913

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02166

SEQUENCE DESCRIPTION:

GATCCAGAAA TTGTGAACAA TGTTTGATTT AGTAGCGTGA CTTGCCTTTC CCTTTAAAAA 60
CATCTTTTAC AAATCTGTCT TGGAATAAAG TCTATTTTCT GCCTTTTGGA AA 112

SEQ ID NO:1914

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02167

SEQUENCE DESCRIPTION:

GATCCTAATT GCCTAGAAAT ATCTTTCTCT TACCTGTTAT TTATCAATTT TNCCCAGTAT 60
TTTATACGG AAAAAATTGT ATTGAAAACA CTTAGTATGC AGTTGANNNN GN 112

SEQ ID NO:1915

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02168

SEQUENCE DESCRIPTION:

GATCAACCGT GAAGCGTAAC AAATTCTGTA TTTAGTTTTT TTTTCTGTTG TGGTGGTTTT 60
TGTTTTGTTT TTTGTTTTTG TAAGATTCTA AATAAATNAA ATACGAGTCA AA 112

SEQ ID NO:1916

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02169

SEQUENCE DESCRIPTION:

GATCAAGACT NCAGTTTGGG AATGCATGGA CACCGGATTT GTTCTTATT CCTTCACTTT 60
TGGGGAAAAT CTCNCCNTNT TTAAAAAGTG ATAAATTGG TGTTAGGTCA AA 112

SEQ ID NO:1917

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02170

SEQUENCE DESCRIPTION:

GATCAACGCG ACTGTATTTT GAAACATTCC AGGAAGGTTA CTTCTTGTC AACTTGCCTG 60
GCAGTGTGTTG TTCAAANCTT GTATTTAATA AATGANCATC TGACTTTACA AA 112

SEQ ID NO:1918

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02171

SEQUENCE DESCRIPTION:

GATCTATCTT AAGAAGTGAC CAGGAAAGAG GTTCATTGAA ATAATCATGC ATGAAGCGCC 60
 AAAGATGCAC CATGTAGAAT TTCACTTTG TACTGGCAGG CTCGTTTTAC CTGATTCTAG 120
 AATATTTAAG AATCTAAAAA TAAAGGGCAA CTCTGACTTA AA 162

SEQ ID NO:1919

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02172

SEQUENCE DESCRIPTION:

GATCAGGGAA CTAAGCATTA TGTGAATTCA CCAGCAAGAT GTACAGNACG CCTGTNTTTA 60
 CATTGTTTTT ATGGAAGTAG CAGAATAAAN CATCTATTTT AAAAATGCAA A 111

SEQ ID NO:1920

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02173

SEQUENCE DESCRIPTION:

GATCTGCGAG GAAGCCGCCT ACTCCAACCC CAGCCTACCT NTGGTGCACA NATCCGTCCC 60
 ATAGCAAAGC CCCTGCACAG ACTCCAGCCG AGCCCACACC TGGNTATNAG GTGGGCCAGC 120
 GGAAGCGCCT CATCTCCTCG GTGGAGGACT TCACCGAGTT TNTNTGAGGC CGGGGCCCTC 180
 CCTCCTGCAC TGGCCTTGGA CGGTATTGCC TGTCAGTGAA ATAAATAAAG TCCTGACCCT 240
 AGTGACAGCA CATAGAGGCA CAGATTGCAG TCAAA 275

SEQ ID NO:1921

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02174

SEQUENCE DESCRIPTION:

GATCAGGACA GAGACTTGGG GGCCATCCTG CCCCTCCAAC CCGGACATGT GTACCTCAGC 60
 TTTTCCCTC ACGTTGCATC AATAAAGCTT CTGTGTTTGG AACAGNTAAA CAAA 114

SEQ ID NO:1922

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02175

SEQUENCE DESCRIPTION:

GATCCCAAGC NTCCCGTCCC TTGGAAAGTN CAGCCAGAAT CTNCGTCCTG ACCCCCGACA 60
 GCCCAGCCTA GCCCACTTGT CATCCATAAA GCAAGCTCAA CCTTGAAA 108

SEQ ID NO:1923

LENGTH:272
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02176
SEQUENCE DESCRIPTION:
GATCCCCCAG GTTCAGACTG AGCTCCCCCT TCCCAGTAGC TCTTGCATCC TCCTCCCAAC 60
TCTAGCCTGA NTNCTTTNCA ATAAAAAATA CAATTCAAGT TGCTTCTCAT GGATGGCACT 120
GCTTTCCTGA GGACTIONAAG TGCCAAGATG GAGGGGCTGA CTCAGTCCAG CCAACNTTTA 180
ATGAGNACCT ANNNGGTGTA TGGAGCTCTA ACCCATGGGT CCATGGGAAT AAAGCAGTGA 240
ATAGTAACAA TAAATAATTG TAACAGCANA AA 272

SEQ ID NO:1924
LENGTH:109
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02177
SEQUENCE DESCRIPTION:
GATCTGACGT TTTCTACGTA GCTTTTGTAT TTTTTTTTTT TAATTNNAAG GAACACTTAT 60
GAAGCCCTGC CATNCCCCTC CCGNGTCTAA TAAACGTAT AATCACAAA 109

SEQ ID NO:1925
LENGTH:104
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02178
SEQUENCE DESCRIPTION:
GATCAACTTG TGCTTGCCAG AGGACGCCAA TGAAGTTGA AACACCAACA ATCAGAGATT 60
TTGTTTCTGT TCCTCATTAA ATCATGAGCT TTTGTGCCGA GAAA 104

SEQ ID NO:1926
LENGTH:104
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02179
SEQUENCE DESCRIPTION:
GATCGTGTGT GTAGGTGGTG TTGTGTGGTT TTCCTTTGTG AAGGAGAGAG GGAAACTATN 60
TGTAGCTTGT TTTATAAAAA ATAAAAAATG GGTAATCTT GAAA 104

SEQ ID NO:1927
LENGTH:103
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02180
SEQUENCE DESCRIPTION:
GATCCTCCCA CTTCCACCTC CCAAGTAGCT GTGGCTACAG GTGTGTGCCA CCATGTCCAG 60

CTGATTTTNG TATTTTNAGT AGGGACAGTA TTTCTCCATG AAA 103

SEQ ID NO:1928

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02181

SEQUENCE DESCRIPTION:

GATCTAAATC TCATTTTATG CTGTATTTTA TATCTNAGTT GTNTTTGAAA ACGTTTTGAT 60
TTTTTGAAAC ACATCAAAT AAATAATGGC GTTNTTGTGTA TGCAAA 106

SEQ ID NO:1929

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02182

SEQUENCE DESCRIPTION:

GATCTGGACG AATGATACCA AACGTTTCTT TCTAACATTG TATTTTATAA CTCTGGCCTA 60
TGATTGTNTT GTGTCTTGCA TTAATAAAAA AAATTTGAGA GTGGTAGAAT TACTTCTGTT 120
ATCTGAAATA CCTGAGATGC ACTTTAACT GTTGAAATGT AAGCNCTGAG GGCAGGGNCC 180
GTATCTNATT TACTGTTAGT ATCCGTTGCA TCTAGTGTGG TGCACCTGGC ACACAGTAGG 240
CACTCAATAA ATATGTATTG ATTAAAAANCA AA 272

SEQ ID NO:1930

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02183

SEQUENCE DESCRIPTION:

GATCTACAGC TCCTGGATAA TTGCTTGATT CTCGCCAGAG ACTGTCAATA TTNATTCAT 60
TGCCATTACC AATAAATCAT TGCTTTTGTT NAGATGGTAT CACTAGTGTT TCCATTGTAA 120
TCTTGACACA TGCAATTGTA AATAAAAGTC ACCACTTTTG CCAAGCTTAA A 171

SEQ ID NO:1931

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02184

SEQUENCE DESCRIPTION:

GATCATACCA CTGCACTCTA GTCTGGGTGA CAGAGCGAGA CCCTGTCTTG AAAAAAATAA 60
ATAAAAAATAA ATAAAAATAA AACTGGCACT ACGTTTAAA 99

SEQ ID NO:1932

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear
CLONE:HUMGS02185
SEQUENCE DESCRIPTION:
GATCTGTGTC TTAAACTTA CTGGAATGGA AATCTATGAA TTATTGCAAA TTGTAATGCT 60
GGAAACAAAA AATAATCCT TGGTTAAAGG GTTTGTAAA 99

SEQ ID NO:1933
LENGTH:99
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02186
SEQUENCE DESCRIPTION:
GATCCTGACA CTCTANCACT CGACTCTGCT GTCATGGGA AGAACAGAAT TNCTCCTGCA 60
TGCAACTAAT TCAATAAAAC TGTCTTGTGA GCTGATAAA 99

SEQ ID NO:1934
LENGTH:90
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02187
SEQUENCE DESCRIPTION:
GATCTTGACT TATATTCTGT ACCACATACA CTTCTGTGGA CTTTTCATCAT TTGTGGGTAG 60
ACTTAATAAA GCATGTATAA AAGTGGCAAA 90

SEQ ID NO:1935
LENGTH:91
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02188
SEQUENCE DESCRIPTION:
GATCAGGNTG CGGATAGACT TGTAAGGGTG TTTGCTGCAT ACAGTGTAG CATTGTGACC 60
GCCAATAANC TTCAATGGTT TCTACTGNAA A 91

SEQ ID NO:1936
LENGTH:91
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02189
SEQUENCE DESCRIPTION:
GATCTTTTCGT NTTTCTAAGC GACTCTACTT TCATTGTTTG CCAGCNTAGC TCGTTGCTGT 60
TGCCCAATAA AGCTNGTGTA CGTNCTGCAA A 91

SEQ ID NO:1937
LENGTH:86
TYPE:nucleic acid

TOPOLOGY:linear
CLONE:HUMGS02191
SEQUENCE DESCRIPTION:
GATCTTACAT CTGCAGCTCT TTCTTCTTTG AATTCCTAT CTGTATGTCT GCCTAATTAA 60
AAAAATATAT ATTGTATTAT GCTAAA 86

SEQ ID NO:1938
LENGTH:86
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02192
SEQUENCE DESCRIPTION:
GATCATCAGT GTTCCTTTTT ACTTATAAAG TTGGATTCTT TTTTAGAATT TGTAATAAAT 60
AAAAACTGCT GCTTTACCAC TGTAATAA 86

SEQ ID NO:1939
LENGTH:91
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02193
SEQUENCE DESCRIPTION:
GATCTACCCT GCCTGTACTA CTCTAGGGAG TATGCTGGAG GCAGAGGGCA AGGGAGGGGT 60
GGTATTAAAC AAGTCAATTC TGTGTNGTAA A 91

SEQ ID NO:1940
LENGTH:84
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02194
SEQUENCE DESCRIPTION:
GATCATGAGT GACCCAGCTG TCTCACGTTG TTTATTCTGC GTCCCCTTCT CCAATAAAAC 60
AAGCCAGTTG GCGGTNGTTA TAAA 84

SEQ ID NO:1941
LENGTH:79
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02195
SEQUENCE DESCRIPTION:
GATCCCCATG CCTAGCAGAG TGCTGGCACT TAGTAGGTCC TCAATAAATA TTTATTAAAT 60
GATGAGATGA TGGAGCAAA 79

SEQ ID NO:1942
LENGTH:78
TYPE:nucleic acid

TOPOLOGY:linear
CLONE:HUMGS02196
SEQUENCE DESCRIPTION:
GATCCAATCC CATAGACAGC TCTGGGCCTC TTGCATTTGA GTTTTTTAGA ATTAAACTGC 60
AGTATTTTGG AAAGCAAA 78

SEQ ID NO:1943
LENGTH:77
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02197
SEQUENCE DESCRIPTION:
GATCCACTAA GGAAATGTTT TAACAGCTAG AGACCACTGC TTGCCTGAAA GGGCGTTCTT 60
AAATTTGGTG CAGCAAA 77

SEQ ID NO:1944
LENGTH:76
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02198
SEQUENCE DESCRIPTION:
GATCCACTTC AAGAATTGCT TGCTTTCAGG AAGAGAGATG TGTTTCAACA AGCCAACTAA 60
AATATATTGC TGCAAA 76

SEQ ID NO:1945
LENGTH:76
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02199
SEQUENCE DESCRIPTION:
GATCGACTTT GTGTCTCTGT TGTCTAAAAT AGGTTTTCCC TGTCTCTGGAC ATTTTCATATA 60
AATGGAATCA CAAAA 76

SEQ ID NO:1946
LENGTH:75
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02200
SEQUENCE DESCRIPTION:
GATCATAGAT TTCTGATTTT ATGTAAAATT TTGCCTAATA CATTAAAGCA GTCACTTTTC 60
CTGTGCTGTT TCAAA 75

SEQ ID NO:1947
LENGTH:74
TYPE:nucleic acid

TOPOLOGY:linear
 CLONE:HUMGS02202
 SEQUENCE DESCRIPTION:
 GATCTGTCAA AGAAACTTC CAAAAGATT TATTAATTAA ACCAGACTCT GTTGCAATAA 60
 AAATCCTACA GAAA 74

SEQ ID NO:1948
 LENGTH:73
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02203
 SEQUENCE DESCRIPTION:
 GATCCACTTT AGCAAACCTT GCTGCAGAGG ACTGTAAAAA CAAATAACTA AAAATAAACT 60
 TAGAAAATAC AAA 73

SEQ ID NO:1949
 LENGTH:73
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02204
 SEQUENCE DESCRIPTION:
 GATCGTAATG TTTATCATGT TACTTCCCCA CCCCTACATT TTTTGAAATA AAATAAGGAA 60
 TTTTATTCTC AAA 73

SEQ ID NO:1950
 LENGTH:72
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02205
 SEQUENCE DESCRIPTION:
 GATCNCTGCA ACTAAGNTTA AAGCAGTGTG ACTGTGTTGC TNAAATATCA AGTATTGTTT 60
 ATAACCACCA AA 72

SEQ ID NO:1951
 LENGTH:66
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02206
 SEQUENCE DESCRIPTION:
 GATCTCAGCT ATTAAGATGC AAGTCTGCCA ATGCTCCTGG CCAAATAAAC CTCTTCCTTC 60
 TTTAAA 66

SEQ ID NO:1952
 LENGTH:65
 TYPE:nucleic acid

TOPOLOGY:linear
CLONE:HUMGS02207
SEQUENCE DESCRIPTION:
GATCCTCTTG TACTGGGAGA GGTGCCTTTT GTATCCCCAA TTAAAGGTAG AAAACCACCC 60
TGAAA 65

SEQ ID NO:1953
LENGTH:62
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02208
SEQUENCE DESCRIPTION:
GATCTCGAAG AAAAAAGGGG GAGACCAAAG AATAAAGAA GGGTTTCCCC ACTAAAATGA 60
AA 62

SEQ ID NO:1954
LENGTH:62
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02209
SEQUENCE DESCRIPTION:
GATCCAGCTG TNCTTAAGAG CCAGTAATGT CTTAATAAAC ATGTGGCAGC TTTNNTTTGA 60
AA 62

SEQ ID NO:1955
LENGTH:61
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02210
SEQUENCE DESCRIPTION:
GATCTCACAT TTCACCCAG GCTCAACTGA GGATGTGGCT TATTAAACAC GGAAGTGCAA 60
A 61

SEQ ID NO:1956
LENGTH:59
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02211
SEQUENCE DESCRIPTION:
GATCAGCCAT GTNTATCTTT TAAAAAATA AACAGGTTGC TTTATTTCTT AGCTTCAAA 59

SEQ ID NO:1957
LENGTH:59
TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS02212

SEQUENCE DESCRIPTION:

GATCAGATGA GATTTAATGA AGACCCAGTG TAAAGAATAA ATGANTCTTA CTCCTTAAA 59

SEQ ID NO:1958

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02213

SEQUENCE DESCRIPTION:

GATCTACACC TGGACTGCCC AGGTCTATAA GCCAATAAAG CCCCTGTTTA CTTGAAA 57

SEQ ID NO:1959

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02214

SEQUENCE DESCRIPTION:

GATCGAAGAA AAAGGGGNGN CAAAGAATAA AAGAAGGGTT TCCCACTAAA ATGAAA 56

SEQ ID NO:1960

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02215

SEQUENCE DESCRIPTION:

GATCAGAAAT GTTGANTGTG CATTGAGTAT TAAAAATTA GATGTATATT ATNCATTGTC 60
CTTTACTCAT GAGTACCTTA TAATANTANT ANTGTATTCT TTGTTAACAA A 111

SEQ ID NO:1961

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02216

SEQUENCE DESCRIPTION:

GATCTATTCC CCATCCCAAG GCAAGCATGA ATAAAATTAG GTTAAACGTA GCATGTGGCA 60
TCGCAGTCTC TTAGAATTTG TTTTCATCTAT TTNATTTTAT TGAATACTGT CTGTATCTTT 120
GGTTATCCTG TTTGAAGAAA AAGGACAAAT AAAACATGGC CAGCAAA 167

SEQ ID NO:1962

LENGTH:516

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02237

SEQUENCE DESCRIPTION:

GATCCTCATT CTCACCCATT TGGCTAATCC AGGAATATTG TTATCCCTNA NCCATTATAT 60
TNAAGTTGAG AAATGTGACA GAGGCATTTA GAGTATGGAC TTTCTTTTCC TTTTNCCTTT 120
NCTTTTTTCC TTTTGTAGAT GGAGTCACAC TCTCCAGGCT GGAGTNCAGT GGCACAATCT 180
CGGCTCACTG CAATTNCCGT CTCCCAAGTT CAAGCGATTC TCCTGCTTTA GACTATGGAT 240
TTCTTTAAGG AATACTGGTT TGCAGTTTTG TTTTCTGGAC TATATCAGCA GATGGTAGAC 300
AGTGTATTATG TAGATGTGTT GTTGTTTTTA TCATTGGGAT TTTAACTTGG NCCGAGTNAA 360
ATAATCAGGT TTTTGTCACT CACACTCTCC CCCAGTTTTT GGGAATAACT TTGGAAGGTA 420
AGGTTCAANTN CCCTAAGGCC GGTGGGGTTN CTGTTGGACC TATGGGGGGN CCACAACTGN 480
ACTATTTAAT TCCNCCCCAC TGTAAGGGGC AAAGGN 516

SEQ ID NO:1963

LENGTH:483

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02238

SEQUENCE DESCRIPTION:

GATCTTTCCA GATGACTTGT CCAAGGTCAC ACAGGAGTCA GATGGCCTTT CCACTACCCC 60
ACAACACAGA TGCATAGTTA CTCTGTGGGC TAATACAATT CAGAATTCAG AGCTCTGCCC 120
ATGGTCACCG GTGGAATCCA CCAGCCATCT CCCTGACCTT GCTCTCCTCT GTTCTCCTCG 180
TCTCCAGGGT CCCATGATTC AGGGCGAGCT GGCTTCAGGA TGTGGGCAAG AGGGGTTTTA 240
GATGGAAGGG TTTTCTCCA GGACAGAATG TTAAGCCAAG CCTGGACTTA ATTGTTCCAA 300
GATGTCGTTA GAATTGGTGG ACAATTTTTT TTAATGATT AGCAAAGGAC AAGGCTTTTG 360
GTGGTCATTA GTATTGTTCA TCAAATATTC CAGTTCTCCA CAATTCTGGG GTACCATGGT 420
ANGGATGAAC CTTCCCTGTC TTTTCAGGGT TAAGTTTAGC TCTNGTGATG TGCTTTTGTG 480
AAA 483

SEQ ID NO:1964

LENGTH:452

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02239

SEQUENCE DESCRIPTION:

GATCGCTGGA GCTGTGGTCG CTGCTGTGAT GTGGAGGAGG AAGAGCTCAG ATAGAAAAGG 60
AGGGAGCTAC TCTCAGGCTG CAAGCAGTGA CAGTGCCAG GGCTCTGATA TGTCTCTCAC 120
AGCTTGTAAG GTGTGAGACA GCTGCCTTGT GTGGGACTGA GAGGCAAGAT TTGTTCTGTC 180
CCTTCCCTTT GTGACTTGAA GAACCCTGAC TTTGTTTCTG CAAAGGCACC TGCATGTGTC 240
TGTGTTCTTG TAGGCATAAT GTGAGGAGGT GGGGNGACCA CCCCACCCNN ATGTCCACCA 300
TGACCCTCTT CCCACGNTGA CCTGTGCTCC CTCCCAATC ATCTNTCCTG TTCCAGAGAG 360
GTGGGGCTGA GGTGTCTCCA TCTCTGCCTC AACTTCATGG TGCACTGAGC TGTAACNTT 420
TCCTGNNTAT TAAAAATAAGA CCTGAGTTTA AA 452

SEQ ID NO:1965

LENGTH:433

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02240

SEQUENCE DESCRIPTION:

GATCAGACAC CAGAGGGTTG GGCATTCTTG CAATACCTTA ACAGTGCTGA AATCTGCAGC 60
ATGGTACTAA GGAAGTTAAA GTTTGAATGT AACCACTTTA TTTAAAAGGT TTTTTCCTTT 120
AATTTAAATG AAATGGTGGT TGAAGTGAAC ATGATTTTGT TGACCATGTT CGTGAATTAC 180
AGATGCAACA TGCATTGGTA GAATCGTGTG ATGGTCTTTT GTGATACTTA ATTTTACAT 240
ATCCCAGTCT CTGTATGTAT CTGCATAGAC AAAGAAAAAA CAAACTCCTG CTTTGCTTTT 300
ATTGAANGGG TTTCCAGGAC TGCCTGTCTG CTCCTGAGCT CTGTTTTAAG TATGTGTATC 360
CTTTGCTTGT ATTTTGAAT TAAAAAATA AGGAAAAGGA NGCCTTTATT TGTTGGNGCA 420
TGTTGGCATT GTN 433

SEQ ID NO:1966

LENGTH:424

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02241

SEQUENCE DESCRIPTION:

GATCTGCAAA GAAAGCTTTT CTNCGTCGC TGCCTCAGNC TCCTCCCTAT GCCTCTNGCA 60
CCTGCGCAGA AGTGCTGGCT GTGCTGANGT CACCATCATC TTCCTCTCCC CCAGCCTCCC 120
AGGCTGGATG GCATGGACTG TTTGCTGACC TCTGTTCTCT TAGGGCATGG GAGGTGGGAG 180
GATATCAAAAT TCTNTAGCCC TTTCCCTCCTA TTCTCCCAAG NAGAGAGNTT CCCATTTCTC 240
CTCGGCCATT GTACCTAGCT CTTGTCCCTA GCTGCATTTC AGTGGACCAT GGATAGAGGG 300
ACTGAGNGTT AGACGGGGAA GACTGGCAGN GAGGCACGCA GGTACTGTGA AAATCCTNNC 360
CTTTGACCTC CNCCAGTGGG AGAGGGGNGT TGGGGTTTTC AATGTGAGAA CAGNAACAAA 420
TAAN 424

SEQ ID NO:1967

LENGTH:418

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02242

SEQUENCE DESCRIPTION:

GATCNCCTGC TCTCCAAGCA TGGCATCTAT GTGCAGGCCA TCAACTACCC AACTGTCCCC 60
CGGGGTGAAG AGCTCCTGCG CTTGGCACCC TCCCCCACC ACAGCCCTCA GATGATGGAA 120
GATTTTGTGG AGANGNTGCT GCTGGCTTGG ACTGCGGTGG GGCTGCCCCT CCAGGATGTG 180
TCTGTGGCTG CCTGCAATTT CTGTCGCCGT CCTGTACACT TTGAGCTCAT GAGTGAGTNG 240
GAACGTTCTT ACTTCGGGAA CATGGGGCCC CAGTATGTCA CCACCTATGC CTGAGAAGCC 300
AGNTGCCTAG GATTACACCC CCACCTGCGN TTAAC TTGGG TCCAGGCCTA CTCCTGTCTT 360
CTGCTTTGTT GTGTGCCTCT AGCTGAATTG AGCCTAAAAA TAAAGNACAA ACCACAAA 418

SEQ ID NO:1968

LENGTH:413

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02243

SEQUENCE DESCRIPTION:

GATCATTGAA TAAACGGGT GTAGAGTACA GGAATGGGGC AGACGCGATT CAGGTGAACA 60
 GCACANGNAG AATATGAGGT GGTTCCTAGG AGCAACACTT TCGACCTCCA GTTCTCCNTG 120
 ATGACAGTAG CTGTCTCCNN GNGAAAAATC CTCACTTATT AACTCTCTTT TCTTGCATCT 180
 CATTTTATA GAGCTACTCA TCCTTATTTG GAAAAACCAA CAACAAAAAA GGCTTTTAGA 240
 AAATGGTTGT AAATCTGACT TCTTTGCAAG TAACTATGTA TATTGTAAAT AGGATATAAA 300
 AAGGCCTTTT TTCTAAATAA GGCCTTAAC TGCCTGTAACA TGAAACTTCA AACTAAACCA 360
 CTTAACTCAN TGNACTACCT TATGGGTTTG TCTGACATCC CTCAACTTAC CAN 413

SEQ ID NO:1969

LENGTH:412

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02244

SEQUENCE DESCRIPTION:

GATCCACCG AGAAGAACCA TGGGTGGACC CGAACTCCCC GGTGCTCTNA GAGGACCCAN 60
 NNCTTTGTGC CTTGGCAAAA AAGCACAAGC GAACCCAGC CCTGATTGCC CTGCGCTACC 120
 AGTACAGCG TGGGGTTGTG GTCCTGGCCA AGAGCTACAA TNAGCAGCGC ATCAGACAGA 180
 ACGTGCAGGT GTTTGAATTC CAGTTGACTT CAGAGGAGAT GAAAGCCATA GATGGCCTAA 240
 ACAGAAATGT GCGATATTTG ACCCTTGNTA TTTTGCTGG NCCCCCTAAT TATCCATTTT 300
 CTGATGAATA TTAACATGGA GGGCATTGCA TGNGGGTCTA CCAGAAGNNC NTNGGGTNTT 360
 GGANTGGTNG CANAAGNGGG TNGGTTCTTA TGGCTGGGGG NACTTGGGCA AN 412

SEQ ID NO:1970

LENGTH:406

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02245

SEQUENCE DESCRIPTION:

GATCCAAAGT TCATACATTT TATGTACAAG ATACATTAGA CTTACAATAN AGTCTAATTA 60
 TTAGACTTTT ATGTCAGTGG ATTGTGCTTG CAGAAATACA GAAGTAACAT ACTGACCCTA 120
 GGTGAGGAGT TTCTTACATG GTTAACTGGA TTGACCCAAT TGGAGTAAAA GATTTTGTCT 180
 GTTACCTCGA TGCTCCTGCA GTTGTTACCT CAGCATGCCA CTGTAGTCCT TGACTCTCAC 240
 ATTAAAACTA ACTTTGGCTA GGTACTGGTG GCTCACACCT GTANGTAATC CCAGTACTTT 300
 AGGAGGCTGA GACTGGAGGA TTACTTGAGT CCAGGAGTTG GAGACCAGCC TGGCCAATAT 360
 AGACTGTCCC TACAAAGGAA AATAAANTTT GTTTCATCTT TCNAAA 406

SEQ ID NO:1971

LENGTH:401

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02246

SEQUENCE DESCRIPTION:

GATCAAATAT GGCATCAACA ATATCCGGGA GCTGGTGGGC CACAAGGTGA ACCTGCAGAT 60
 GGTGTATGAC AGTCCCCTGT NCCGCCTGGA TGCCGAGCCG AGGCCCCCTC CCACACAGGA 120

GGCTGCGTGA CATGGGCCAC TCTAGGACAG GTCATCCTCC CCGAGTCCCT GCTGCTGCGC 180
 TCCTTTGCAT CCCTGGCCAG TNACCTGTA TTTATGAGGC CTCTGTNAGG CAGCCCCCAC 240
 CTTCTCTTT CCCACCTGTC CCAGGACCAG AATCCCAGGG ACAGAGGACT GGGTAGCAGG 300
 TTCCTTCTGT TGTCTGTGT GGTGTGTCTA CTGTGAGGGT GGGCCCTGAG GAGACCTGTG 360
 GGCCANCTAT TGTCTAATAA AGTGGGGCAG TTGCCCCCAA A 401

SEQ ID NO:1972

LENGTH:384

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02247

SEQUENCE DESCRIPTION:

GATCTTTNAT GTTGTNNATT TTGGAGAGAA GCACAAGGAG TATTCTCTTT CTAGGGAAAAG 60
 TTGTGAACCC AACGGAAGCG TAGTTGGGAA AAAGGCCATT GGCTAATTNC ACGTGTGTAT 120
 TGCAATGGGA AATAAATAAA TAATATAGCC TGGTGTGATT GATGTGAGCT TGGNCTTGCA 180
 TTCCCTTATG ATGGGATGAA GATTGACCCC TGGCTGACCT TTNTTGGCTG TGGAAGAGGN 240
 CAATCCTATG GCAGAGCATT CAGAATGTCA ATGCGTAATT CATTATTATC CAAAGCATAG 300
 GAAGGCTCTA TGTNTGTATA TNNCCCTNTG TCGGAATACC CCCTTANCTC ATTTTCCNCT 360
 TAATAAATTT CACTGGGTTG NAAA 384

SEQ ID NO:1973

LENGTH:383

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02248

SEQUENCE DESCRIPTION:

GATCCTGCTT CCCCCCTGGG GTCTTCTTGG TTCCCTGAAG CCCCCTCTTC GGAGTCCCTG 60
 CCCTCTATCG GCTCTGCCTC CTGCTTCTTT TCTGTATTGC CATGATTTTT GCTAAGGATA 120
 AAGGACAAC TATTGGCTT CTTTGGGAAA CTGCAATCT CCCCCAACAG GCCCCTCTGA 180
 GATTTCTCCT TTTGCCACCT TCGATATTTT CTCCAGTTTC CTTGATTCCT TTGATACGTC 240
 CCCATTCAGG CCACTCTGGC CTCCTATCCA ACCTGCCAGA ACTTTTTCCT CTCAGCACT 300
 TCAGTCACTT AAACATTAGG GTCCTCTGCC CTAAAGGGAC TCAAAATCCT GCAAAANCAA 360
 CCACNNAAGG ATAAAAAAT AAA 383

SEQ ID NO:1974

LENGTH:375

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02249

SEQUENCE DESCRIPTION:

GATCAACAGG AAGAACATGG TGGTCTCCTT TGGAGATGGG GTTACCTTCG TGGTCGTCCT 60
 ACACCAGGTG TGGAAGAAAC ATCCTGTCCA CCGTGACTTT CTAGGCTTCT ACGTGGTGGA 120
 CAGTACCCGG ATGTCAGCAC AGACGCATGG GCTGNTGGGG CAATTCTTCC AACCCTTTGA 180
 CTTTAAAGTG TCTGACATCN GGCCAGGCTC TNACCCACA AAGCCAGATG CCACATTGGT 240
 GGTGAAGAAC CATCANGNTG ATTNNAACCA GGGGCTCCCN GAAAGANTAC AGNAAAGGNA 300

TGCCANGCAT CGGCACGAAN GGTGTCTTC TTGGTTCGNN CACANCAACG GGGAATGTTG 360
TTGNTTGANT GGTGN 375

SEQ ID NO:1975

LENGTH:370

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02250

SEQUENCE DESCRIPTION:

GATCTATGTG CACACACCCN CATCACATGG AATGGGCTGG TCTAGGCTGT GGCCTGNCAC 60
CTTCCTTAGA GTGAATAGGG CGGACACTCC TCTCTTTTCC TGTAGCGTGT GGACCGGTCC 120
ACGCAATTCT TTATCCTGTG AACTCATCTG AGTGGGAGGT GGTGGACACT GGGGTTTCCT 180
TCCCTCTCTC CGTAGCATCC GTTGGTCTTT CTCTCCATCT CTGTTGGTTT GTCTGTCTCT 240
GTCTTCCTCC CAATCCCTAG GGGAAGGGGG CATTGGGCTA GGGGGTGCCC CTGTGAGCCT 300
NGACCTTGCC CCCTCGTCCN TCTCCCCAGT GTTCCAGGA CCCCCAATAA ACCTTGTCCT 360
GTCAGTCAAA 370

SEQ ID NO:1976

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02252

SEQUENCE DESCRIPTION:

GATCGATACA GGGGAGGGGG GAGGTGGAAA CAAACAACAA AACTGTACAT TTTTTTTAAA 60
GTTTGTGAA AAGAATATTG TCTTATTCTA TAAACATTT CAAACCTAGT TAGAGATTG 120
TAATCAAAAA ACATTTGCGC AGAAAGCAGC ACTTAGGGCT GCCTGTTCTA TACCCTACAG 180
TCAGACAGGA AAAGANCTGA AAATGGCACC CTTCTGACAT TCTGNGGCAG CTGGNCTNGC 240
AGCCANGTAA NGGNGAGTTT ATGAGGTGGT GTGGGGAGGG TGGGGGAGGC NGCGTGGGGG 300
NTTCTCTCCA CAGCAGGTGG GNGCAGGCAA GNNTTTGGNG GCCAGANGGN GNGCTTTGTN 360
CNTGGGN 367

SEQ ID NO:1977

LENGTH:353

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02254

SEQUENCE DESCRIPTION:

GATCTCCAGC CTTACCGCGG CTCGAAATGG ACCCCAATG CTCCTGCACC ACTGGTGTCT 60
CCTGCGCCTG CACCGGTCC TGCAAGTGCA AAGAGTGCAA ATGCACCTCC TGCAAGAAGA 120
GCTGCTGCTC CTGCTGCCCC GTGGGCTGTG CCAAGTGTGC CCACGGCTGT GTCTGCAAAG 180
GGACGTTGGA GAACTGCAGC TGCTGTGCCT GATGTGGGAA CAGCTCTTCT CCCAGATGTT 240
AATAGAACAA GCTGCACAAC CTGGATTTTT TTTTCAATAC GATACTGAGC CATTTGNNGC 300
ATTTCTTTTT ATGTAAATA TGTGAGTGAC AATAAACAA TTTTGA CTG AAA 353

SEQ ID NO:1978

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02255

SEQUENCE DESCRIPTION:

GATCTNACCT GAGGTGCTGG GTGAGAAATC TTAGGGACCA GATGGAAGAG GGCCTGTNTA 60
TANNGACATT AGGAAGGAGG TTTGGGAAGG TTTGGGAGGG CAGCCTGACT TGTCTCCAGA 120
GAAAGTTAGA ACTGGTTGAC TTAGCAACCA AGGGNCACTG GGTCAAAGAC GAGGANTCAG 180
GACGTCGGTG CCTAGTGACT GAGCGCCANC CAGCCCATT CTNTACATTG CCATGGGCTA 240
AACCCAGTGT GCTGTAAACT CTTGCAGTTC CTTGNGGTTA TGGGATTTTG NTATCTTGNC 300
NGTGTTTCCT CAANTAAAGG NNCTTGTTTG TAAAAATTGG GNAANAAGAA A 351

SEQ ID NO:1979

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02256

SEQUENCE DESCRIPTION:

GATCTGTTTC CTACAGACTT CAAATTTGAC ACCCCAGTGG ACAAACCTACC ACAGCTATAA 60
ATTGAGGCAG CTAACGTCAA ATTCTTGAAT ACAAACCTTT GCCTGTTGTA CATAGCCTAT 120
ACAAAATGCT GGGTTGAGCC TTTCATGAGG AAAAACAAAA GACATGGTAC GCATTCCAGG 180
GCTGAATACT ATTGCTTGGC ATNNGTATG TATATACTAG TGAAACATAT TTAATGATT 240
AAATTTCTTA TCAAATTTCT TTTGTAGCAA TCTAGGAAAC TGTATTTTGG AAGATATTTG 300
AAATTATGTA ATTCTTGAAT AAAACATTTT TCAAACTCA AA 342

SEQ ID NO:1980

LENGTH:340

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02257

SEQUENCE DESCRIPTION:

GATCAGCATG ACCAGCACTC GTTGGNGGAA AGGTGTCTNT NAGGAGACGT CTGGAGCTTA 60
TGAGAAAACA GATACTGATG GGAAGTTTCT CTATCACAAA TCCAAATGGA ACATAACCAT 120
GGCGTCCTAT GTGGTCCACA CCAACTATGA TGAGTATGCC ATTTTCCTGA CCAAGAAATT 180
CAGCCGCCAT CATNGACCCA CCATTACTGC GGTGTCCCTG GTGATGGNGA TGAGGAGCTN 240
CTGCGCTTCT CCAACTGACA ACTGGCCGNT CTGCANGTCA GAGGATGGNC AGTGTCTGTC 300
CNGGGGTACT GTGGCAGNCA GCGACAAGCA ACCTGNGTCN 340

SEQ ID NO:1981

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02258

SEQUENCE DESCRIPTION:

GATCNTNTCG NCTCTGAAGA AGACATGGTG ACTGTGGTGG AGGACTGGAT GANNTTCTAC 60

ATCAACTATT ACAGGCAGCA GGTGACAGGG GAGCCCCAAG AGCGAGACAA GGCTCTGCAG 120
 GAGCTTCGGC AAGAGCTGAA CACTCTGGCC AACCTTTTCC TGGCCAAGTA CAGGGACTTC 180
 CTGAAGTCTC ATGAGCTCCC GAGTCACCCA CCGCCCTCCT CCTAGCTCAG GGACCCAGCC 240
 CCTCCTCTCT GAGAAACTCT GACCTTCATG TCCTTAGGCT GTGCTCCTGC CACTCTACCC 300
 TGACACCTCA ATAAAGACCA GTGCTGGTTT TGTTGGAAA 339

SEQ ID NO:1982

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02259

SEQUENCE DESCRIPTION:

GATCCTTNCG TGCTGAATAT CTGAAAAGAG AAATTTTTC TACAAAATCT CTTGGGTCAA 60
 GAAAGTTCTA GAATTTNAAT TGATAACAT GGTGGGTTGG CTNAGGGNAA GAGTATATGA 120
 GGAACCTTTT AAACGACAAC AATACTGCTA GCTTTCAGGA TGATTTTAA AAAATAGATT 180
 CAAATGTGTT ATCCTCTCTC TGAAACGCTT CCTATAACTC GAGTTTATAG GGGAAGAAAA 240
 AGCTATTGTT TACAATTATA TCACCATTAA GGCAACTGCT ACACCCTGCT TTGTATTCTG 300
 GGCTAAGATN CATTAAAAAC TAGCTGCNCT TAAA 334

SEQ ID NO:1983

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02260

SEQUENCE DESCRIPTION:

GATCTTGTGC CAAGCTNAGG GTGTAGCGCT GCAAACGATG AAGCAAGAGT TTCTCATTA 60
 CCTTGTGAAG CAAAAGCCAC AAATAACANA GGAACAACCT GAGGCTGTCA TTGCANATTT 120
 CTCAGGCTNT TGGAGAAATG CTGCCAAGGC AGGACAGGAG TCTGCTTGT GAGAGGGCAA 180
 AACTGATTT CAAAACTCG CCTGCTTGG GNTTTAAATT ACTTCAGGGN AGANAGCAAA 240
 CAGNNCTTTC ATTCGGTGTN ACTTTTCTCT NNAATTTTAA CTNNTTTAAC ACTTTTGTG 300
 GATTAATGNA ATGATAAACG CTTTTATCGC NN 332

SEQ ID NO:1984

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02261

SEQUENCE DESCRIPTION:

GATCCTGTGT GTGTGTACTA CCATAGAATG GGCCCCAAGA TGCATGATNA AGTGAGGAAA 60
 AAAGCCCATG GTATCCTAAT GTTTGGAATG GAGAAAGTGT GTAGATGTAT GTGTGTGCAT 120
 ATGTTTTAC ACAGACGTAT ACACGTGTAT ATCATATGTC CACCTGCATA TGCCTAGGAT 180
 GTCTCTGGGA GGATATCTAG CAGCCCGGCA GCCTGAATTG CCTCTGGGAA GAGGGGTGGG 240
 AATGACTTTT CAATGTACAC CTTTGTACC TTTTGAATTT TCGTACCATG TACATGTATT 300
 ATCTATTAAA AAATAGTTCT TAATTTTAA A 331

SEQ ID NO:1985

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02262

SEQUENCE DESCRIPTION:

GATCACCCGG CAAGTTCAGG CTGAATTCTG AAGGCAAAC T GAGCAGACG GTCTCCATGG 60
CAACCCGAGC TTCAGAGGCC GAGGATGCCT CCCTTCTCAG CTCATGCAG GGCTACATGA 120
AGCACGCCAC CAAGACCGCC AAGGATGCAC TGAGCAGCGT GCAGGAGTCC CAGGTGGCCC 180
AGCAGGCCAG GGGCTGGGTG ACCGATGGCT TCAGTTCCCT GAAAGACTAC TGGAGCACCG 240
TTAAGGACAA GTTCTCTGAG TTCTGGGATT TGGACCCTGA GGTCAGACCA ACTTCAGCCG 300
TGGCTGCCTG AGGACCTCAA TACCCN 326

SEQ ID NO:1986

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02263

SEQUENCE DESCRIPTION:

GATCCTTACA TCTGCATCTA GTTATCAGTA ATTTAGATAT TGAGCTATTT TGATTTATAT 60
TTAAGAAATT AATACATTAG CACTGAAAGT TAAATAGTGT GTTTAAGGTA GTTAATTTCA 120
GGTTGAATGG GTTTTTTTTA ATGAAGTGTA AATAATACCA ATGTATAAGN GTATATTATN 180
ATATTAAATA TTATAGTAAA AAGGAATGTG TGGTATTTNC TNCAGCAAAA CTATTTTTGT 240
GATNTTTTNA TTCTCANCTT TNTATTTAAA AAATGTTACA TCTGCAGAAA AGTTGAAAGT 300
ATAATAAACT CTTCAGTTAA A 321

SEQ ID NO:1987

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02264

SEQUENCE DESCRIPTION:

GATCTGCGCT GTGGCTGTCC CTGGACGTGC TGCAGCCCTC CTGTCCCTTC CCCCCAGTCA 60
GTATTACCCT GTGAAGCCCC TTCCCTCCTT TATTATTAG GAGGGCTGGG GGGGCTCCCT 120
GGTTCTNAGC ATCATCCTTT CCCCTCCCCT CTCTTCCTCC CCTCTGCACT TTGTTTACTT 180
GTTTTGCACA GACGTGGGCC TGGGCCTTCT CAGCAGCCGC CTTCTAGTTG GGGGCTAGTC 240
GCCGAATTCT ACAATCCCGC TGGGGCGGCC GGGGCGGGAG AGAAAGGTGG TGCTGCAGTG 300
GTGGCCCTGG GGGGCCATTC N 321

SEQ ID NO:1988

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02266

SEQUENCE DESCRIPTION:

GATCAAAAAT TTCTATCTGG AGAACCTCTG CGGACAAACC GAGTGCTTCC TGCAATTCCA 60
 AGTCAACGAA GACACAGCAC AGCAGCAGAA GAGAGTGAAC ATTCTGCCAA CCCCACCAGT 120
 GATGAAAATT AACTGTGGGC CACTCGCTGC AGAAATGTAG ATGAATATGT ATTTTCAACT 180
 CTCAAAGGAC AAGATTACTC CAGTTTGTA GAACGAAGAC CAATTTAGTA AGCTGCATT 240
 TATAAGCCAT CAGTTTATA ACTCGAAATT CTTTATTCCA AATAAAGATA CTCCCTAAAT 300
 AAGCACTTAG ANAAA 315

SEQ ID NO:1989

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02268

SEQUENCE DESCRIPTION:

GATCAAAGCT GGGGCTGGAG GGTGGAGGTG TCAAGCCAGG CCAGGCAAAG GGAGATTGGA 60
 AGCCAGAGCA GGTGGGCGCA TCTCCAGGA AACCTGTCAT CATTCTTTCC TGGTGATTCT 120
 TTCCTTCTTT GTTATGGTTC ACATGAGTCT ATGGAGTGCT CATTCTACAT TCTCCGTTCT 180
 TATCTTCATC CTATGCAACT TTAGACCGCT ACTGTTTTTT AAAAGTGATT TGATTTGNGG 240
 CTGTAACCTT TTTTATTGT TGTTAGCTTT GACTTTGAAA TGTGTAATAA AGATTCAAGT 300
 GAGCATTAGA AA 312

SEQ ID NO:1990
LENGTH:310
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02269
SEQUENCE DESCRIPTION:
GATCTTGGGG TCCCCGACG ACGTGCTCGA GTTCCTGAAG GTGTATGAGA AGCACTCNGC 60
CCAGTGAGCA CCTGCCCTGC CTGCATCTGG AGAATTGCCT CTACCTGGAC CTTTGTCTC 120
ACACAGCAGT ACCCTGACCT GCTGTGCACC TTACATTCTT AGAGAGCAGA AATAAAAAGC 180
ATGACTATTT CCACCATCAA ATGCTGTAGA ATGCTTGGCA CTCCCTAACC AAATGCTGTC 240
TCCATAATGC CACTGGTGTT AAGATATATT TTGAGTGGAT GGAGGAGAAA TAAACTTATT 300
CCTCCTTAAA 310

SEQ ID NO:1991
LENGTH:305
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02270
SEQUENCE DESCRIPTION:
GATCCGAGTG AATGCAGTAA ACCCCACAGT GGTGATGACG TCCATGGGCC AGGCCACCTG 60
GAGTGACCCC CACAAGGCCA AGACTATGCT GAACCGAATC CCACTTGGCA AGTTTGCTGA 120
GGTAGAGCAC GTGGTGAACG CCATCCTCTT TCTGCTGAGT GACCGAAGTG GCATGACCAC 180
GGGTTCCTACT TTGCCGNTGG AAGGGGGCTT CTGGGCCTGC TGAGCTCCCT CCACACACCT 240
NAAGCCCCAT GGGCGTGCTC ATCCTACCCC CAATCCNTCC AATAAACCTG ATTCTGCTGG 300
CCAAA 305

SEQ ID NO:1992
LENGTH:301
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02271
SEQUENCE DESCRIPTION:
GATCGAGACA CGTGATGGGA AGCTGGTGTC TGAGTCCTCT GACGTCCTGC CCAAGTGAAC 60
AGCTGCGGCA GCCCTCCCAG CCTACCCCTC CTGCGCTGCC CCAGNNCTG GGAAGGAGGC 120
CGCTATGCAG GGTAGCACTG GGAACAGGAG ACCCACCTGA GGCTCAGCCC TAGCCCTCAG 180
CCCACCTGGG GAGTTTACTA CCTGGGGACC CCCCTTGCCC ATGCNTCCAG CTACAAAACA 240
ATTCAATTGC TTTTTTTTTT TGGTCCAAAN TAAAACNTCA GTTAGCTNTG CCAATTTNAA 300
A 301

SEQ ID NO:1993
LENGTH:311
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02272

SEQUENCE DESCRIPTION:

GATCTGAACT CCAGCTGCCC TACAAACTCC GTCACAGCTT TTNTTCTCAC TTCATGTGAA 60
 AACTACCCCA GTGGCTGACT GAATTGCTGA CCCTTCAAGC TCTGTCCTTA TCCATTACCT 120
 TAAAGCAGTC ATTCCTTAGT AAAGTTTCCA ACAAATAGAA ATTAATGAAT AAATGTTGAC 180
 ACTTTGATAG CACTGATATG GAGATTATCC TTTCATTGAG CCTTTTATCC TCTGGTCTTC 240
 TTTGAAGAAC CCCTCACTGT CACCTTCCTG AGAATACTCT AAGACCAATA AATACTTCAG 300
 TATTTCAGAA A 311

SEQ ID NO:1994

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02274

SEQUENCE DESCRIPTION:

GATCTAAAAC TNAAGAACAA ATTCTATTTA TTTATTATTG GAAAATNAAA AGCAACTCAA 60
 AACAACTTCA ACCTGGAGGT GCATTTATAA TTCATTCTGC ATTTATTCTG TAAAAAGGTG 120
 ACTGTTTTAT AAATNCTTTT AATTTATGTT CAATATATAT AAAAAGTGCA TCTNTTTTNT 180
 TTTTCCCTTT TTTCTCCATA ATTTAAGAA ATGAATNNGN TTGTTGTCAA CACATTTGTG 240
 AAGTCTTGTG CTATAAAGGG GAACTTCCCC TAATAAAAGG GCCTTGGAAG CCTCAAA 297

SEQ ID NO:1995

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02275

SEQUENCE DESCRIPTION:

GATCTAGGAG AGGCGGCTCT GAACGATTAC CTGCGGGTCA AGACAGTNAC CTTGGAATAC 60
 TGAAGAAAGG TCTTTTAAAG AAGAAAGTCC CTGCCCCCTC CTCGTGGCTG GGGCCCCCTC 120
 CCTNTTAAAG CTGGNTGCAC AGCACCTCCC ACCTGGGGGG CTAGTGGAAG CCCTCCTGCN 180
 TGCACACCAT GTTTCNTCT TGGACGCCCT CTTTCCAGTN ANAAGCAGCC CTTGGNTGGN 240
 TNAGGTGTGC CCCTCCCAGG NAGAATAAAG CTTCTAAAGA NAGACCGTCC AAA 293

SEQ ID NO:1996

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02276

SEQUENCE DESCRIPTION:

GATCAGGAGG AAGTGAGCAG TCGCCTGCCT GCAGCAGGNA GCTTTCTACT CCTGCCTCAT 60
 GCGTACGTCC CACAAATGCA GGTGTCCTGA GCACCACACC CAGTGGGAAG AGTGTGGGGG 120
 AGGCGCACAG TGTGAGCCCG CCCCCACGTC GTGGGTAAAC ATCTGTTATC AAAGTGTGTG 180
 CGTTGTTGTG GGTGTTGTCC TTGAACAAGA TGTGGGCTT GCAAGATGGG AGAGTAAACC 240
 TTGAAGGGCT TTATTAAAGA AATAAAAAAG NACTTNTTGT ATCTTTTAAA 290

SEQ ID NO:1997

LENGTH:289

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02277

SEQUENCE DESCRIPTION:

GATCCTGAAG AGGATGGTGT GGGAAATGCAC TTTGAGAAAT GNCTATCTAA CCTTTNGAAA 60
CTTAAAGTGT TCCAGTCCC CATTATACTT TTTAAAACCA CAATAGTCAC ATAAGGAAAT 120
AATCTAGCAG CTCATCCCTT TGCATCCAAT GTTTGAACTA TTTTGTAGAA GTGCTCTNGT 180
TCTGTCAAAG AACCTTCAAC ACAGAAAAAT ACANAAATGA GGGAAATGTA TAATTCCTGC 240
AGGAGAGAAG TGTGTGTAAC ATGTCAATAN ATGTTCTTAG ANAGTTAAA 289

SEQ ID NO:1998

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02278

SEQUENCE DESCRIPTION:

GATCAGAGAA GCTAGGAGAG CTCCAGCAGG GGCACAGAGG ATTGGNNGCA GGAGGAGTCT 60
GGAACACAGC CTTATGCCC CCTGACCCCA GGCCGACCCT CCCCACACCC TAGGGTACCC 120
CAGTCGTATC CTCTGTCCGC ATGTGTGGCC AGGTCTGACA AACACCTGTA GATGACTGNT 180
GGCCNAACCT GGGNCCTGNN CAGGAGGTTG GAGCAGNAAG GGCTCTCCCT AGGGGTGGTG 240
TNTCTCTCT AGGGTATTGG GNTGCATGTN NTGCACTNN 279

SEQ ID NO:1999

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02279

SEQUENCE DESCRIPTION:

GATCATGAAG GAACACATAG CACCAAGAGA GGCCATGCTA AATCTCGCCC TGTCAGAGGT 60
ATCCACACTT CTCCTTTGGG GAAGNCTTCC CTGTCCCCCT TGCATTTCCCT TCTTAACTCT 120
CTGTTACAGC TCATTGAAAC TACACTTTTT TGGTCTNNTT TTNTGCTAGA CTGTAAGTTC 180
CTTGGGGNCA GGGCCTTTGN CTGNCTCATC TCTGTATTCC CAAATGCCTA ACAGTACAGA 240
GCCATGACTC AATAAATACA TGNTAAATGG NAAA 274

SEQ ID NO:2000

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02280

SEQUENCE DESCRIPTION:

GATCTTAACA AAATTCGTAG CAGTGGAACC TTGAAATGCA TGTGGCTAGA TTTATGCTAA 60
AATGATTCTC AGTTAGCATT TTAGTAACAC TTCAAAGGTT TTTTTTTGTT TGTTTTCTAG 120
ACTTAATAAA AGCTTAGGAT TAATTAGAAG AAGCAATCTA GTTAAATTC CCATTTGTAT 180
TTNATTNCT TGAATACTTT TTNCATAGTT ATTTGTTTAA AANGATTTAA AAATCATTGC 240

ACTTTGGTCA GAAAAATAAT AAATATATCT NATAAACAAA

280

SEQ ID NO:2001

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02281

SEQUENCE DESCRIPTION:

GATCTGCATG TTCTCTCTTT GGGTTCAAGC ATTCCTTAC AGAAGAGCCA CCGTGGAAGT 60
CATGGGTAAA TATGTGTTGA ATTGGTAACT CCCTCTTGGA GAATTTCTTG TGAATTACAC 120
AGCAATAGGG GAACTCATT AACTGGAGAC ATAATCTCAA TTTGTAAAGT GTGGCCCAT 180
TTCTAACATT TTNANNTTGC ATACCCTCCC CTCTCTCTC GATTGATGAA ACTAACAAAG 240
AGGTTAATAA AAGCCCATCT CGTCATGTAA A 271

SEQ ID NO:2002

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02282

SEQUENCE DESCRIPTION:

GATCTTACCC GTGACAAAAT GTGTTCCATG GTCAAAAAAT GGCAGACAAT GATTGAAGCT 60
CACGTTGATG TCAAGACTAC CGATGGTTAC TTGCTTCGTC TGTCTGTGT TGGTTTACT 120
AAAAAACGCA NCAATCAGAT ACGGAAGACC TCTTATGCTC AGCACCCNCA AGGTNCGNCN 180
AATNCGGGAG AAGATGATGG GNAATCATTG GCCCCGTGAG GGTCAAGGC AAANTTTGCT 240
TTTGAANGNA AGGGGGGNNNA ATAAATTNGN 270

SEQ ID NO:2003

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02283

SEQUENCE DESCRIPTION:

GATCCCAACA GAAGAACATC GGAGACCAGA GAGAGGAACT CAAAGGGGCG CTGCCTCCGG 60
GTCTGGGGTC CTGGCCTGCG TGGCCTNTTG GCACGTGTTT CTCTCCCCG CCCGGCCTCC 120
AGTTGTGTGC TCTCACACAG GCTTCCTTCT CGACCGGCAG GGGCTGGCTG GCTTGCAGGC 180
CACGAGNGTN GGCTCTACCC NACACTGGCT TTGCTGTGTA TACGCTTNTT GCCCTTAAAT 240
AAATATGCAC ATTTTATCCA TTAAT 265

SEQ ID NO:2004

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02285

SEQUENCE DESCRIPTION:

GATCCACATT GTTAGGTGCT GACCTAGACA GAGATGAACT GAGGTCCTTG TTTTGTTTTG 60

TTCATAATAC AAAGGTGCTA ATTAATAGTA TTTCAGATAC TTGAAGAATG TTGATGGTGC 120
TAGAAGAATT TGAGAAGAAA TACTCCTGTA TTGAGTTGTA TCGTGTGGTG TATTTTTTAA 180
AAAAATTGAT TTAGCATTCA TATTTTCCAT CTTATTCCCA ATTAAAAGTA TGCAGATTAT 240
TTGCCCAAA 249

SEQ ID NO:2005

LENGTH:242

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02287

SEQUENCE DESCRIPTION:

GATCAGGAGC AAACAGACCC TGCAAGGTCC TCCAGGCCTG GGGACAGGAA AGCCACTGAC 60
CCAGCCCGGG AGGCAGAACC AGGCAGCCTC CNTGGCCCCA GGCAGCCCTT TTCCCTCCAG 120
TGGCACCTCC TGGAAACAGT CCACTTGGGC GCAAAACCCA GTGCCTTCCA AATGAGCTGC 180
AGTCCCAGG CCATGAGCCT CCCGGGAATG TTTAATAAAG GGCCTGGCCA CCTCTCCTCA 240
AA 242

SEQ ID NO:2006

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02288

SEQUENCE DESCRIPTION:

GATCTAAGTT TGATAAGAGC CTGTGTGGTG AGTATGGTGT GTATGTGAAG GTGACTTCCA 60
TCCAGGACTG GGTTCAGAAG CCATAGCTGA GACTAATGCA AGGCTGGCGA AGCCTTGCTG 120
AAAGAAGATT TCAGCTGGAG AGGCAAAGTG GCGGGAGTGG CAGAGTGGTG CGTAAGTGTG 180
GTAAAGTNTG GGTCCANCCT GCATTCTGAG CAATCAATAA AGTNTTCTT TTNCCCAA 239

SEQ ID NO:2007

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02289

SEQUENCE DESCRIPTION:

GATCCTGAAG GTAATACAAT CAGCAACATT AAAACATTTT TTTCATTTTC TGTTACTGAA 60
GTAAAATAAG CATTCCACAT TTATAACAA CAGGTATTAT CAGGAAGATA TTTTCATATC 120
TTACAGCGAA AAGTCTTTT AAACAGAAGC ACCTAATATT TAATATATTA TTTTGTAAT 180
TATTGACTAA CAAATGATG ACTCGACTGG CGAAATAAAA TACAGTTTTT AAATCAAA 238

SEQ ID NO:2008

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02290

SEQUENCE DESCRIPTION:

GATCCTGAGA NCTTCAAGCT CCTGGNNAAT GTNCTGGTGA CCGTTTTGGC AATCCATTTC 60
 GGCAAAGAAT TCACCCCTGA GGTGCAGGCT TCCTGGCAGA AGATGGTGAC TGGAGTGGCC 120
 AGTNCCCTGT CCTCCAGATA CCACTGAGCT CACTGCCCAT NATGCAGAGC TTTCAAGGAT 180
 AGGCTTTATT CTGCAAGCAA TCAAATAATA AATNTATTCT GCTANGNNA AACAAA 236

SEQ ID NO:2009

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02291

SEQUENCE DESCRIPTION:

GATCATTACC ATTACAGGAA CACAGGACCA GATACAGAAT GCACAGTATT TGCTGCAGAA 60
 CAGTGTGAAG CAGTATGCAG ATGTTGAAGG ATTCTAATGC AAGATATTTT TCCTTTTTTA 120
 TAGTGTGAAG CAGTATTCTG GAAAGTTTTT CTAAGACTAG TGAAGAACTG AAGGAGTCCT 180
 GCATCTTTT NNGTTAANC TGCTTCTGTT NAAAANGCCA NCATTCCTCT GTTN 235

SEQ ID NO:2010

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02292

SEQUENCE DESCRIPTION:

GATCCTGAAG AACTTCAAGC TCCTGGGAAA TATGCTGGTG ACCGTTTTGG CAANNNGTTT 60
 CGGCAAAGAN TTCACCCCTG AGGTGCAGGC TTCCTGGCAG AAGATGGTGA CTGGAGTGGC 120
 CAGTGCCCTG TCCTCCANAT ACCACTGAGC TCACTGCCCA TAATGCAGAG CTTTCAAGGA 180
 TAGGCTTTAT NCTGCAAGCA ATACAAATAA TAANTCTNTC CTCCTAAGAG AAA 233

SEQ ID NO:2011

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02293

SEQUENCE DESCRIPTION:

GATCCTTGAC GAGGAGAGAG AGCTTGAAAA GCTGTTTCAG CTGGGCCCCG CTTACCTGT 60
 GAAGATGCC TCTCCACCAT GGAATCCAA TCTGTTGCAG TCTCCTTCAA GCATTCTGTC 120
 GACCCTGGAT GTTGAATTGC CACCTGTTTG CTGTGACATA GATATTTAAA TTTCTTAGTG 180
 CTTCAGAGTT TGTGTGTATT TGTATTAATA AAGCATTCTT TAACAGAAA 229

SEQ ID NO:2012

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02294

SEQUENCE DESCRIPTION:

GATCTGGCAT AAATAAATTN AATAAATATT TTAATGCTCC ATTTTTTAAT GTTGCTTTTC 60

ATACTAAAGA ATGGTGTAGA CTTGTTTTGC AACTNTAAGG TACCCAGTTA TCAATTTAAT 120
 CAATGTTTTA GAGNAGGAAA TNATTTTTTN GGTAGAAATT GTTCANGAAC CTTAATTGAA 180
 TGCATTAAAT GATGGTGGCA AAATAAACCT ATTAGAAATT AAA 223

SEQ ID NO:2013

LENGTH:221

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02295

SEQUENCE DESCRIPTION:

GATCAATGCC CTCATCTGCA ATGTAGGGGC CGGTGGACCT GCTCCAGCAG CTGGTGCTGC 60
 ACCANAGGAG GTCCTGCCCC CTCCACTNCT GCTGCTCCAG CTGAGGAGAA GAAAGTGGAA 120
 GCAAAGAAAG AAGAATCCGA GGAGTCTGAT GATGACATGG GCTTTGGTCT TTTTGACTAA 180
 ACCTCTTTTA TAACATGTTC AATAAAAAGC TGAAC TTAA A 221

SEQ ID NO:2014

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02296

SEQUENCE DESCRIPTION:

GATCTGTAGT GTCATGGGTG CTGCCGCAGA CGNAAGTTGA NCTGGGGGTG CCTGCAGCCT 60
 TCCACTCCTG CCCCGCCTCA CCCACATGC TCCCTGTTTC TAATGCTTTC TCTAACTTCC 120
 TCACCCCTTA ACCAAAAAGG TGTGTTTNCCT TTTGTNCATA TAGCCATTCT NAAATATNAG 180
 TAATGTAAAC CTNACTTTAT TAAAAAATTA TCCAGCAAA 219

SEQ ID NO:2015

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02297

SEQUENCE DESCRIPTION:

GATCAGGTTT GTTGAGTTTT TTAGCCTAAT TCCAAAGCAT GGAAGAGTGC TCTAGGTAGG 60
 AAAGAAAGCT TTTTCTTACG ATTTGTAGCT ACCTACTGTG CCTGACTTGG TGCCTGTGTG 120
 AGGATTAAGC CCTTAGTCTG CTCTTGCAAT TATTCAAATG ACAAATTAAA TTTGCTTTTG 180
 TAATAACAAT AAAAGTTGTC ATCTTCCCTT TTGAAA 216

SEQ ID NO:2016

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02298

SEQUENCE DESCRIPTION:

GATCCTGCCA TCACTGCTGC AAAGAGAACA CGAGACTCAA GGAAACTCCT CCTCCACCGC 60
 AGCCCAACTG TGCCTGCTAG TNTCCCCGTG CACACAGGCA GCTCCAGGGG GCTCTGGTTG 120

CCAACAAACA GCATTTGTAA ATGGTCTATT AGCCTTCATT TATACTGCCT AACAATTATT 180
TGAAGGAATA AATTGATGTC AATGGCTAAA 210

SEQ ID NO:2017

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02299

SEQUENCE DESCRIPTION:

GATCTAGCCT GATTCCTGCG TGTCCGAAAG AACTTAACGT TTAAAGGTN ATTGTNAAGT 60
AACTGTGTGG GGTCTAATG CCAGTTTCCT AATCCATCT CACTGGAGAT GTTTAAAGTT 120
GGCCTCTATC CTAATGACTC AAAACTTGGT TCTTAACCTAC CATGATTGCT TTNAGGGCC 180
CGGAATTATA AATATATATN ATATTTAANT TGTTTGAAA 219

SEQ ID NO:2018

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02300

SEQUENCE DESCRIPTION:

GATCCGGGGC ACAAAGAGGG TGGGGAACAT GGGGGCTATA CTGGGGAAAG CAGCCATGCT 60
CCCCCNACC TCCAGCCGAG CATCCTTCAT NAGCCTGCAG AACTGCTTTC CTATGTTTAC 120
CCAGGGGACC TCCTTTCANA TGAAGTGGGA AGAGATGAAA TGTTTTTCCA TATTAAATA 180
AATAAGAACA TAAAAAGCA ACCCCAAA 208

SEQ ID NO:2019

LENGTH:202

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02301

SEQUENCE DESCRIPTION:

GATCTCAAGG CTGCCGTACT GGAGGCCATG ACTGCCTTCC GCAGAGCAGG TGCTGACATC 60
ATCATCACCN ACTACACACC GCAGCTGCTG CAGTGGCTGA AGGAGGAATG ATGGAGACAG 120
TGCCAGGCCC AAGAACTAGA ACTTTAAAC GTTCCCGGGG CCTCAGACAA GTGAAAACCA 180
AAGTAAATGC TGCTTTTAGA AA 202

SEQ ID NO:2020

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02302

SEQUENCE DESCRIPTION:

GATCTTCTTT GAGACAAGGC AGGCTGTGGC CATGTAGCCC CATCACACTG TGTTTGTNAT 60
TGTCTGTGTG TCTGTCTCCC CCACCAGACT GTGAGCTCCA TGAGGGCAGG GACCGTGTCT 120
TGTCCGTTCT CTGTATCCCC AGTGCTTGGA ACAGAGCGAG TGCTCACTGT GTATTTAATA 180

AATGGACAAA GAGAGAGGAT GACCCTCACG GGGAGACAGA GAAA

224

SEQ ID NO:2021

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02303

SEQUENCE DESCRIPTION:

GATCGGCAAA TGCATTGGCC TCCTGGTTAA GCACGTTTTG GGGATAATTT TCTCTTCTTT 60
AGGCAATGAT TAAGTTAGGC AATTTCAGT ATGTTAAGTA ACACACTTAT TTTTGCCTGT 120
GTATGGAGAG ATTCAAGAAA TAATTTTAAA ACCGCATACA TAATAAAGA CATTGTTGCA 180
TGGCTTATAG TCAAA 195

SEQ ID NO:2022

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02304

SEQUENCE DESCRIPTION:

GATCTGTGCC GTGGTCCTGA GGCAGTTGTC TCCACACAAG TACCTCTAGA ACAATCCCCT 60
TTTTTCCATC AAGCTGTAGC CTGCAGAGAA TGGAAACGTG GGAAAGGAAT GGTATGTGGG 120
GGAAATGCAT CCCCTCAGAG GACTGAGGCA TAGTCTCTCA TCTGCTATTG AATAAAGACC 180
TTCTATCTTG AAA 193

SEQ ID NO:2023

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02305

SEQUENCE DESCRIPTION:

GATCTNCCCT GCATCCTGAC CAAGACCCCA ACCGTGCCCC CAACAGACTC CCCCTGGGAG 60
ATTCAGCCTA TTAAGTATG AGGAAAGTGA AGCCGGGTCT CCTGTCTCCC CAAATTCATT 120
GCACCTACGA TATAGTCCAG GATTGGGTAG CAAGATTAAA CACAAGCGCT TCAAATTGAT 180
GAAAACCACA AA 192

SEQ ID NO:2024

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02306

SEQUENCE DESCRIPTION:

GATCCCTAAC TACCAACCCC CTGAAGGCAG GTACAATGAC ATCACCAAGG TGTACACACA 60
AGTGGAGTTT AAGAGATAGA CTTGCAGGCT GCTATCCTTA ACATGCTGCC CCTGAGAGTA 120
GGAATGACCA GGGTTCAAGT CTGCTTTCCA CAGAATCAGG CATNCTGTGA ATAAATACTG 180
GTTTAATCAA A 191

00803

SEQ ID NO:2025
 LENGTH:186
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02307
 SEQUENCE DESCRIPTION:
 GATCGTATTT CAGTTTTTTG GGTCAATATA TGAACAATGT GTGAACCAGA ACGTATGGTA 60
 TTTGACATCA AAGCTATGTC TTGGCATATG TTTATGTTGA TATACTGAA TTCATTTAAA 120
 ATGGAATGTT AATTACATCG ACTTCTTACT ATAAAAAATA AAAAGTTATT GTCCAGTGCA 180
 CAGAAA 186

SEQ ID NO:2026
 LENGTH:380
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02308
 SEQUENCE DESCRIPTION:
 GATCCATTGA GAAAGAGATG ATGTAATAAA TAATTAAGAT TAGTAATAAT ATTATCAGGG 60
 GTGATTATGA CCAGTTGAAT AATCTCTTTC CTTGAATTA TTAGCTAAC AAATTAATC 120
 TCCCAAATAT NTAAANTAAT GTAAANTCAT ATTTNACTGC CCATTATTAA CTAAATATT 180
 TNTGTNTGAC TTTGAGCACC AACTGGTAAT ACTAGTAAAT ACCCATGTCA TGCAGATGGC 240
 TGGGCGAATA AGAGATGTCT AAAAATATGC ACTGGTCTTG GGAAACATGG CACAAGTAAG 300
 GNTATCATAT ATGANGTCTG GTTTATTTTA TGTCTGATTT CTTTTTGANT GAGTAGTTNG 360
 GGACTCCANT TCTAAGGNTN 380

SEQ ID NO:2027
 LENGTH:183
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02309
 SEQUENCE DESCRIPTION:
 GATCTCTCCA CAGGGCTTGT TTTCCAAAGA AAAGTATTGT TTGGAGGAGC AAAGTTAAAA 60
 GCCTACCTAA GCATATCGTA AAGCTGTTCA AAAATAACTC AGACCCAGTC TTGTGGATGG 120
 AAATGTAGTG CTCGAGTCAC ATTCTGCTTA AAGTTGTAAC AAATACAGAT GAGTTAAAAG 180
 AAA 183

SEQ ID NO:2028
 LENGTH:188
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02310
 SEQUENCE DESCRIPTION:
 GATCTGCAGC TGCCTTGGGA CTTGAATCCA TGCAATGTTT AGAGTGTGAA GTCAGTTACT 60
 TGTGTGATGT TTCTTACTGT ATCAATGAAA TACATATTGT NATGTCAGTN CTGCCAGGA 120

ACTTCTCAAC AAAATGGAAT TTNNTTTNC AGTATTTCAG TAAATATTGA TATGCCCAGC 180
CTGNTAAA 188

SEQ ID NO:2029

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02311

SEQUENCE DESCRIPTION:

GATCCATGCT GATTTTATT GCACAAGAAT TAGGTTTGAA CTCTTGAGCT GGAACCTCAG 60
CAAACTAGAG TATATATTGT TCAGTATNNC TTTGGAAACA TTTCATTAAT GTACTTGTCT 120
TACANAAATT TCTGAACTTT AGTAAAAAAA AAATAAAGTT AAACTTTTAA AACTCAAA 178

SEQ ID NO:2030

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02312

SEQUENCE DESCRIPTION:

GATCGGTATG TTTTGAAAAG AGTAATTTAA CTTTTGGGTG CCAGGAAATG GGTTTTCTCA 60
AAGTCCATTG CCGGCAATGG GCAGGCCTGC AAATACTGGC ACAGAGCATT AATCATACAC 120
CTTATTAACG GTGAGGTGAA TAACTTTGAA ATAAAGTTTT AGAGAAATGT TTCAAA 176

SEQ ID NO:2031

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02313

SEQUENCE DESCRIPTION:

GATCCGCCTG GCAGCCATTG CAGAGTCAGG GGTAGAGCGG CAAGTACTTT TGGGAGACCA 60
GATACCCAAA TTCGCCGTTG CCACTTTACC ACCCGCCTGA ATCCTGGGAT TCTAGTATGC 120
AATAAGAGAT GCCCTGTACT GATGCAAAAT TTAATAAAGT TTGTCACAGA GAAA 174

SEQ ID NO:2032

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02314

SEQUENCE DESCRIPTION:

GATCCAGAAG TTATGGTGGC TTTCCAGGAT GTGGCTCAGA ACCCAGCAAA TATGTCAAAA 60
TACCAGAGCA ACCCAAAGGT TATGAATCTC ATCAGTAAAT TNTCAGCCAA ATTTGGAGGT 120
CAAGCGTAAT GTCCTTCTGA TAAATAAAGC CCTTNCTGAA GGAAAAGCAA CN 172

SEQ ID NO:2033

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02315

SEQUENCE DESCRIPTION:

GATCTCAGGA CCTCTTTACA CTTTCAAAG TTAATAAGA CTCTGAAGAG CTTTCTTTA 60
TGAGGTATA TCAATATTTA CTACATTAAG AATTAACA GAAAATTTAA AGTAGGTATT 120
TATTGATTTA TTTAAACAAT AAAAATAATA AAGTATTACA TGCTAACAAA 170

SEQ ID NO:2034

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02316

SEQUENCE DESCRIPTION:

GATCCGTTTG CTGTGAACCC TATGTTATTT CCATGTGTCA AGTGGGTCTT GTGTTGCCAG 60
CTTCTATTTG AAGATTGCGT TTGCACTCAG TGTAAGTTTC TGTCAGCAGT AGTTTCACCC 120
ATTTGCATGG AAAAATTTAA AGCTAATAAA GCAATTTAAA AAGCACAAA 169

SEQ ID NO:2035

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02317

SEQUENCE DESCRIPTION:

GATCCACAG TCTCAGCCCT GCTTACTAGT GAGAAAGACT GGCAAGGTTT CCTAGAGCTC 60
TACTTACAGA ACAGCCCTGA GNCCTGTAAC TATGGGCTCT GAAGGGGGCA GGAGTCAGCA 120
ATAAGCTAT GTCTGATATT TTCCTTCACT AATATGAAA 159

SEQ ID NO:2036

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02318

SEQUENCE DESCRIPTION:

GATCCGGGGN AGCTAGGATG GGAACCTGC CACAGCCAGA ACTGAGGGGC TGGCCCCAGG 60
CAGCTCCCAG GGGGTAGAAC GGCCCTGTGC TTAAGACACT CCTGCTGCCC CGTCTTGAGG 120
GTGGCGATTA AAGTTGCTTC ACATCNTCAA A 151

SEQ ID NO:2037

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02319

SEQUENCE DESCRIPTION:

GATCTAACAT CAACTAACA GCTTTCAGAA AGGAGACTNT TGNCATCTTT TCACCAAGGA 60

GTATATTTGT AGAGTAATAT ATGTGTGGAA NTTNAAATT ATATCATTTG ACATGATTTA 120
TGAGGCTTAT TTAAGCTGGA GTNNNCCN 148

SEQ ID NO:2038

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02321

SEQUENCE DESCRIPTION:

GATCTGGTCT AGTTAACCTA GAAGTATTTT TGTCTCTTAG AAATACTTGT GATTTTATA 60
ATACAAAAGG GTCTTGACTC TAAATGCAGT TTTAAGAATT GTTTTGAAT TTAAATAAAG 120
TTACTTGAAT TTCAAACATC AAA 143

SEQ ID NO:2039

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02322

SEQUENCE DESCRIPTION:

GATCTGGAGG AGGTGAAGGC CAAGGGACCT GCTTCTATTA GCCCTTCTCC ATGGCCCTGC 60
CATGCTCTCC AAACCACTTT TTGCAGCTTT CTCTAGTCA AGTTCACCAG ACTCTATAAA 120
TAAACCTGA CAGACCATGA AA 142

SEQ ID NO:2040

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02323

SEQUENCE DESCRIPTION:

GATCGAAAGA AGAACATCAT GAAAAANAAA TNAACCTTGC TTAGTGGATT AGACTCCTTT 60
GCTGAAGTCA GTTATTCATC AAGAATGCAA TTAGACTAAT TGTGAATAAA TGATTGAATG 120
AAGATATAAT AAATAAAAGC TATAATTATA GATAAA 156

SEQ ID NO:2041

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02324

SEQUENCE DESCRIPTION:

GATCTCTCCT TCAGTCTGCT CTGTTTAATT CTGCTGTCTG CTCTTCTCTA ATGCTGCGTC 60
CCTAATTGTA CACAGTTTGT TGATATCTAG GAGTATAAAG TTGTCGCCCA TCAATAAAAA 120
TCACAAAGTT GGTTTAAA 138

SEQ ID NO:2042

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02325

SEQUENCE DESCRIPTION:

GATCCACAGG CAGAGCCAAG GGAAGGTGTG ATTCTNTGAG GAAAGAGTGA TTCTGATATA 60
TGTACTTGTC ACATTGGTGT TGGACACATT TGCGCCAAAA GTATGGTAAT NCTATTATNA 120
AATAATTCTC TGAGAAA 137

SEQ ID NO:2043

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02326

SEQUENCE DESCRIPTION:

GATCCAAACT GGAANCAGCT CAAATNTCCA TCAATAGCAG AAAGATAAAC AAATGTNGGG 60
ATGTNCAGAG CTTGAAATAT GACACANTAT AAAAGGACAA ACTATTAAAA CTCACAACAG 120
CATGGATAAN TCTN 134

SEQ ID NO:2044

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02327

SEQUENCE DESCRIPTION:

GATCCAAGCA GGCCTTGAAT GCAATNGCAA GTGGTTTATA GTCCCTTGCT CTTACAACTT 60
GCAGGGACAT GTGGTTATTT AGAAATTGTG ACTGAGCGGA CCCAAGAATN TAAATAATAT 120
TCATAAACCT AAA 133

SEQ ID NO:2045

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02328

SEQUENCE DESCRIPTION:

GATCACCTGT AGGGAAATGA AGTGTNCCCT GGAACAAGGA GGTGGGGGCA NTGTGGCCCC 60
TTCCCCAACT GGGGGTGGAC AGCTGTNTCC TGGGGTGGGT TGGTATTAAA GAGGAAAGCN 120
ATTTTTTGA AA 132

SEQ ID NO:2046

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02329

SEQUENCE DESCRIPTION:

GATCCCAGGA ACTGTGGGCA CCCATTTTCT GTGTCTCCA GCCCATTTCC ACTCCTAGTT 60

TGTCATGGAT AATNTTTGTT GTTCCTGTG TGATTTTGC CATCAAAATA AAAATTTGAG 120
ACTCGTTAAA 130

SEQ ID NO:2047

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02330

SEQUENCE DESCRIPTION:

GATCCAAGGT CAAAAAACA AATNCATCAA TTCAGCACAC CACCAACTNA NAGGCTAAGC 60
ATCTTACTGC TAATTCATTG ANGCTGCCAT TTGTCAAGTG CCAAATTGAN TTATTGATT 120
GTCAATANTN 130

SEQ ID NO:2048

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02331

SEQUENCE DESCRIPTION:

GATCAGATAT ACAAAAATAA AGTTTTTNAT TTCATTAAAT ATTTAATTAA AACTGCTAAG 60
TTTGAAAATT TTTACCAAGA AATANTTTN ANAAATTTN CTAAGTGGAT AAAGGCTTTT 120
AAGCAATAAA 130

SEQ ID NO:2049

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02332

SEQUENCE DESCRIPTION:

GATCTATATT CCCTTATTGC ATTTTCCTTA TGTATAATTT TCCAGATGGT GATGTTACTT 60
TTCAGTGTAC TCATATGTCT CATTTTCATC TAAAATTAAA TGGCAGGAAA CAAGGACTGC 120
ATAGAGAAA 129

SEQ ID NO:2050

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02333

SEQUENCE DESCRIPTION:

GATCAAAAGC TTATTCNTTT TTTTTTTTTT TTCTTTGGTG TAAAGCCAAC ACCCTGTTTA 60
AAANANATAA TTTTTTTTAA TCATTTTGCN TCTTTTTTTT TGCTTCATT NAATAAAAAAN 120
TGGAAAGAN 129

SEQ ID NO:2051

LENGTH:148

TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02334
SEQUENCE DESCRIPTION:
GATCTGAACA CCACAGCCCC TGTACTTGGG TTGCCTCTTG TCCCTGAACT TCGTTGTACC 60
AGTGCATGGA GAGAAAATTT TGTCTCTTG TCTTAGAGTT GTGTGTAAAT CAAGGAAGCC 120
ATCATTAAAT TGTTTTATTT CTCTCAA 148

SEQ ID NO:2052
LENGTH:132
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02336
SEQUENCE DESCRIPTION:
GATCCANCTN TNTCAACCTC CCAAGTAGGA TTACAAGCAT ACGCCGACGA TGCCCAGAAT 60
CCAGAACTTT GTCTATNACT CTCCCAACA ACCTAGATGT GAAACAGAA TAACTTCAC 120
CCAGAAAACA AA 132

SEQ ID NO:2053
LENGTH:126
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02337
SEQUENCE DESCRIPTION:
GATCCATCCT TCCTGCCTCC AAGGAGGATA CACAGAGAAT GGCTTCCTGT TGTTTTGTTT 60
ATTTCTTAA CGTGACAGA TGGAACTTC ATTTAAAAAT AAAACAAAA CAACTCAAAA 120
AGGAAA 126

SEQ ID NO:2054
LENGTH:126
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02338
SEQUENCE DESCRIPTION:
GATCAAAAAA GCTCACGTCG TATTTCTTCT TTTCCTTTCT CTTTCTAGA AATTGGGTGT 60
TTGTACCAGA ATGGAATTTT GCTTCTCGGT TATCCTGTGC TTCAGATGAT TATAATCTAA 120
CCCAA 126

SEQ ID NO:2055
LENGTH:125
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02339
SEQUENCE DESCRIPTION:
GATCAAATCT TACAGTTCAT CACAGAATCC ATGTTGGTGA TAAATNCTAT AAAAGTAATA 60

GGGGTGGTAA GAACATCAGA GANTCCACAC AGGAAAAAAA ATCTATAAAA NGATTCTTTG 120
TGAAA 125

SEQ ID NO:2056

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02340

SEQUENCE DESCRIPTION:

GATCCACAG AAATGTTTTG GAGAGCGGGA GGTTCCCCC AATCTCCTCC AAGTTCTTCT 60
CCCTCCAACC AGAGTTGTGT CTAACCTTAG GCATCTTTTA ATAAATNTNA TTGCGACTCT 120
GAAA 124

SEQ ID NO:2057

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02341

SEQUENCE DESCRIPTION:

GATCACTTCT GAATAAGCAG TTTGCCTTTA TAAAACTTG CTGCCTGNCT AAAGATTAAC 60
AGGTTATAGT TTAAATNTGT AATTAATGCT ACCATCTTGC AATAAAGTGA CAATTGAATG 120
NAACAGGGTT TTTCAAGTTG TATAATTCTC TGAAATACTC AGCTTTTGTC ATATGGGTAA 180
AANTTAAAGA TGTCATTGGN CTACAAA 207

SEQ ID NO:2058

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02342

SEQUENCE DESCRIPTION:

GATCTTTACT CTTGAGAAAT GAATAAGCTT TCTCTCAGAA ATGCTGTCCC TATACACTAG 60
ACAAACTGA GCCTGTATAA GGAATAAATG GGAGCGCCGA AAAGCTCCNT AAAAAGCAAA 120

SEQ ID NO:2059

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02343

SEQUENCE DESCRIPTION:

GATCCAAGGT ATCCNTAACA NTGGAGCAGC CAAGTTTNTT TTCAGGCACA ATGACCCTGA 60
CCACCTAAAG AACTTNTAG AGAAGNTAA CCCTAAGATA CCCAAAATTT TGGCCTTN 119

SEQ ID NO:2060

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear
CLONE:HUMGS02345
SEQUENCE DESCRIPTION:
GATCCCCTCT TCTCAGACAG CGCCAGGCCG GGGTGGGGCC GGGGTGGGG CCGAGCCCCA 60
CAGCTGCCCC CCTCCNTCC CNTTTGTAT AATTAATAA AGAAATGGTC GCGCTTCTGT 120
TTTAAA 127

SEQ ID NO:2061
LENGTH:117
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02346
SEQUENCE DESCRIPTION:
GATCGAGGTG GAGAAGATGC GCGGGGCGGA GNCTTATNAC CGNNTAGAGA ACAGCCCACA 60
GNTGGATGGG AGCCCCCAG GGCTCGAGGG TCTGCTGGGG GGCATTGGGG AGAAAGN 117

SEQ ID NO:2062
LENGTH:115
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02347
SEQUENCE DESCRIPTION:
GATCTGCTGA GGACACATGC GCTTTTGTAG AATTTAACAT CTGGTGTTTT TCTGAAAAAA 60
TATATATACA TATATTGCTT TATTGAAAC AAATNAAAAT ATGCTGCATT TGAAA 115

SEQ ID NO:2063
LENGTH:114
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02348
SEQUENCE DESCRIPTION:
GATCTGGAGG AGGTGAAGGC CAAGGTGCTG CCCGCTGGGC CTCCCAACGG GCCCTCCTCC 60
CCTCCTTGCA CCGGCCCTTC CTGGTCTTTG AATAAAGTCT GAGTGGGCGG CAAA 114

SEQ ID NO:2064
LENGTH:114
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02349
SEQUENCE DESCRIPTION:
GATCCAAAGT ATCAGGTCTG TTAGTGGCCA TCAGCACTTT AATATTGCCT CGAGGAGGAT 60
TTCTTGNCN CNNAATAA GGTCATTAAG TCTATGCCA AATCAGTGC TCCN 114

SEQ ID NO:2065
LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02350

SEQUENCE DESCRIPTION:

GATCCTAGAT AAGCAGGTGA AATTTAGGCT TCAGAATATA TCCGAGAGGT GGGGAGGGTC 60
CCTTGGAAGC TGGTGAAGTC CTGTTCTTAT TATGAATCCA TTCATTCAAG AAA 113

SEQ ID NO:2066

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02351

SEQUENCE DESCRIPTION:

GATCTACGCT GTGCCTTGGC AGGGCACAAT GACCTTNTAG ANATCCACCT GTTAGAACGC 60
CTAGGGGTCT GAACGGGGCT GGNCTGANNC TATCACCTCT TATGCACAN 109

SEQ ID NO:2067

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02352

SEQUENCE DESCRIPTION:

GATCCCAAGG CTAGCCTGT GAAGGTCTCC TATCGGAAGA NTACCCCAT NNAATGGGAA 60
GTGGAATTCC TGGTCAANTT GGTCTTNATG CTCTGGAAGA CGTAAGAN 108

SEQ ID NO:2068

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02353

SEQUENCE DESCRIPTION:

GATCTTAAGC AAAAATACTC ACTGAAATAG TATGTGGATG AATTCACCTA CTTACAATTT 60
TATGTTTCT TTGTAAATAA TAAATGTGAA TCTCAATTCT GCTTTAAA 108

SEQ ID NO:2069

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02354

SEQUENCE DESCRIPTION:

GATCCTNGGC TCCACCTGGG TGGCCCTGAC CACGGGAGCC TTGGGCCTAG AGCTGCCCTT 60
GTCCCTNCCAG GACCCCNCC TGGCCACTGC CCGCCTACTN NCTN 104

SEQ ID NO:2070

LENGTH:408

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02355

SEQUENCE DESCRIPTION:

GATCAGAGCT GCTGAGTTCA GGATGCCTGC GTGTGGTTTA GGTGTTAGCC TTCTTACATG 60
GATGTNAGGA GAGCTGCTGC CCTCTTGGCG TGAGTTGCGT ATTCAGGCTG CTTTGTCTGC 120
CTTTGGCCAG AGAGCTGGTT GAAGATGTTT GTAATCGTTT TCAGTCTCCT GCAGGTTTCT 180
GTGCCCCTGT GGTGGAAGAG GGCACGACAG TNCANGCGCA NGTTCCTGGG CTCCTCAGTC 240
GCAGGGGTGG GATGTGAGTC ATGCGGATTA TCCACTCGCC ACAGTTATCA GCTGCCATTG 300
CTCCCTGTCC TGTTTCCCCA CTCTCTTATT TGTGCATTCT GTTTGGTTTC CTGTAGTTTT 360
AATTTTTTAA TAAAGTTGAN TAAAANTATA AAAANAAGAG NNGGCGNN 408

SEQ ID NO:2071

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02356

SEQUENCE DESCRIPTION:

GATCAAAAGC TTATTCATCT TTTTCTTTT TCCTTTGGTG TAAAGCCAAC ACCCTGTTTA 60
AAAANCATAA TTTCNTTAAN CNATTTTCCC TCTTTCTCNT N 101

SEQ ID NO:2072

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02357

SEQUENCE DESCRIPTION:

GATCAAAAAA AGAGTTTGAA GCTAATTTTG GCAAAATTCA GGCAAAAAA GTAAGGCCAT 60
TATTTAACCC TGTGGCACCA TTAAATGTTG AAGAATGACA AA 102

SEQ ID NO:2073

LENGTH:95

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02358

SEQUENCE DESCRIPTION:

GATCTTTTTT GTCAGTTTGT TTGTATGAAA CTAAAGCCNT TATTTGTTAA TAGTTCCTGC 60
TAAACAATG AATAAAAACT CAAGGAGCAA CTAAA 95

SEQ ID NO:2074

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02359

SEQUENCE DESCRIPTION:

GATCGTCTCT AGGATGATAT GCATGTTTCA AGTGGTATTG AAAGCCGCAC TGATGGATAT 60
GTAATAATAA ACATATCTGT TATTAATATA AA 92

SEQ ID NO:2075

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02360

SEQUENCE DESCRIPTION:

GATCTAAGTT AGGAAAGACG ATGGAGGTGG AATCCTTTAA GATTATNTCC AGTTATTTGC 60
TTTAATAAAG AAGAAGTTAC CCTTGTCAAA ATCAGAACAA A 101

SEQ ID NO:2076

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02361

SEQUENCE DESCRIPTION:

GATCTTCATT TATTTTAATG GTAATGGTTT TAAAATATGT TCCTGATTGT ACATATTNTA 60
AAATAAACAT GTTTTTTAAC ATGCAAA 87

SEQ ID NO:2077

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02362

SEQUENCE DESCRIPTION:

GATCACAAAC ATTCAACAAA AAAGTTAACT TATGTGACTT GGCAGTTATT CTATACCATT 60
TCCTGTCCAT TAAAATTTTT AAAGGAAA 88

SEQ ID NO:2078

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02363

SEQUENCE DESCRIPTION:

GATCCCATTT AATATTTAAA AAAATCAGTA GCACAAATAT ATNTNAATTG TCAACTTACA 60
AAATAAAATA CATTTACAGT CTAAA 85

SEQ ID NO:2079

LENGTH:82

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02364

SEQUENCE DESCRIPTION:

GATCATCAAA AAAGAGGTAA TCTACGTTAT TTCCTATTCT AATGTCTTTT CCTAATAAAA 60
AACTTCAACT TTCTAAGTTA AA 82

SEQ ID NO:2080

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02365

SEQUENCE DESCRIPTION:

GATCCTTTTCG GAATTGCACT TTTACATGTT GGGCGAATTT GTGTCCGTGC TGAAGTTTAT 60
TAAAGGAAAA TAGATGGAAA 80

SEQ ID NO:2081

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02366

SEQUENCE DESCRIPTION:

GATCAAGCCT TGCTTGAGAT TGGCCTTACC TCTGGNCNTT TTTTGTTATA TGAGCTAATA 60
AATNCTGTTT ATTGTTTAAA 80

SEQ ID NO:2082

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02367

SEQUENCE DESCRIPTION:

GATCCATGAA GTNATTCAGT GGAAANATGC ACGTTNATAC TATTTNAGAG CACAAATAAA 60
CTCACTATAC AATGGTCAAA 80

SEQ ID NO:2083

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02368

SEQUENCE DESCRIPTION:

GATCAAACCT CAAAGCAGCT TTNACTTGGA ATTTAAAAAT AACAGTTCA AAGATACTCT 60
ACATTATCAC CNTAAA 76

SEQ ID NO:2084

LENGTH:70

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02369

SEQUENCE DESCRIPTION:

GATCCATTTC ATGCAGGATT GTGTTGTTTT AACTGTTGTT GAGGAAACTA ATAAATAATT 60
AAATTGTAAA 70

SEQ ID NO:2085

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02370

SEQUENCE DESCRIPTION:

GATCTAAGAT GTCCCAGGTC CTGGGAAGTT TACTCAATAA AGCTGGCTTT CCCCTGCCCT 60
CAAA 64

SEQ ID NO:2086

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02371

SEQUENCE DESCRIPTION:

GATCCGTTGT AATGATGTGA ACATTTTATG AGTTTAAATA AAGTCATCTT ATGGTGTCAT 60
TAAA 64

SEQ ID NO:2087

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02372

SEQUENCE DESCRIPTION:

GATCTTAAAA TCAGTGATTA TCTTTTCTA AATAAAATAT CACCAGAATT CATCAGTTAA 60
A 61

SEQ ID NO:2088

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02373

SEQUENCE DESCRIPTION:

GATCTAAGAT GTCCCAGGTC CAGGAAGTTT ACTCAATAAA GTGGCTTTCC CTGCCANAAA 60

SEQ ID NO:2089

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02374

SEQUENCE DESCRIPTION:

GATCTCCGGG CAGCCACCAC CTCCTCGGTC TGCCCCCTCA TTAAAATTCA CGTTCCCACC 60

CTGAAA

66

SEQ ID NO:2090

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02375

SEQUENCE DESCRIPTION:

GATCATGCAA AGAAAACTTC CAAAAAGATT TATTAACCTA AACCAGCCTC TNTNGCAA 59

SEQ ID NO:2091

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02376

SEQUENCE DESCRIPTION:

GATCTCAAAT TGCCTCTGAA CCTTTTATAA GACAGTTTAT CTCCAAATAA ATTTATTTTG 60

CAATACCACG CAAA 74

SEQ ID NO:2092

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02377

SEQUENCE DESCRIPTION:

GATCAAAGTC TATTTTGCAT AAAATGTCCA ATAATTAAAT ATTGTTATAA AATAAA 56

SEQ ID NO:2093

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02378

SEQUENCE DESCRIPTION:

GATCGGCAGT TGGGAGGGGC GCTCTGAGAT TAAAGAGTTT TACCTCTGAG ATAAA 55

SEQ ID NO:2094

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02379

SEQUENCE DESCRIPTION:

GATCCANTCT TTGACAAACT GAAAAGAACT GAAAATAAAC ATTGCTCTTT CAAA 54

SEQ ID NO:2095

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02380

SEQUENCE DESCRIPTION:

GATCCCTGCC CCTCCCCACT GGGACGGAAT AAATGCTCTG CAGACCTGGA AA

52

SEQ ID NO:2096

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02382

SEQUENCE DESCRIPTION:

GATCTGCTTA TAGAGCAGGA AGAATAAAGC CACCAACTTT TACCTAGCCC GGCTAATCAT 60
GGAAGTGTGN CCAGGCTTCA AGTAACTGA GTTTTAATTT TTTTTTTTC TTGGNAGAGT 120
AATGTAATTA TTAATGGGG AAAGATATTT AANATTTAAT ACTAAGCTTT AAAAAGAAAC 180
CTGCTATCAT TGCTATGTAT CTTGATGCAA AGACTATGAT GTTAATAAAA GAAAGTACAG 240
ANGACACTTG GCATTCAAAG NTTAAA 266

SEQ ID NO:2097

LENGTH:451

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02399

SEQUENCE DESCRIPTION:

GATCTAGAGA GTGCTCAGAA TTAGGGCCTG GCATTTGGAA TCACAGGANA TATCATCACA 60
GAAACAACCTG TTTTAAGATT AGTCCATCA CTCTCATCCT GTATTTTNAT AAGAAACACA 120
AGAGTGCATA CCAGAATTGA ATATACCATA TGGGATTGGN GAAAGACAAA TGTGGAAGAA 180
ATCANNNGNC TGGAGACTAC TTTTGTGCTT TACAAAACCTG TGAAGGATTG TGGTCACCTG 240
GAACAGTCTC CAATCTATGT TAGCACTATG TGGCTCAGCC TCTGTTACCC CTGGGNTTAT 300
ATATCAACCT GTAAACATGT GCCTGTAAC TACTTCCAAA ATCAAANTCA TACTTATTNG 360
AGGAANATTC TGATTTTNTA GANAAAANNT NGAGCNAGGN GATTATANCN TGTTTGCAAG 420
TCATGTGGTT TCTTTCTCAA TNGGGGGNNA N 451

SEQ ID NO:2098

LENGTH:441

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02400

SEQUENCE DESCRIPTION:

GATCCCAAAC TGTTCCCTTT TTCATTTCTT GAAATGTTAC CACTACAGAC ATTTTTTNAA 60
GGTGAATAAA CAGTTGTNAT GTGCTGTACC TAAATCATG TTTAATCGTA TAAGGAAACA 120
TTTCAATACA CTTATACAGG AAGAAACTA TAGATGAAGT ACATGTGTGT GATTCAGTCT 180
GATTCACAGA ATTCTGAGAG TAATATGGAA TAAACAACCT CCACTTAGAT GATAACTGAA 240
GCATTTCTTG CCTTGTGAAA ATTTGGNTTT TAAATTGCTG TTAGAATGGG NAATTTGGAC 300
ACTTTATATC ATTGTATANT TNCAGACTTT AGNTTCTGTA TCTNTTGGGA ACCATGGTTA 360

TAGCAAAACC NTTGGNAATA ATCCTGTTTC CNANACCNCC CTNNATGTAA ACCTGGTATG 420
CTTGGCTGGT AACNCCTAAG N 441

SEQ ID NO:2099

LENGTH:440

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02401

SEQUENCE DESCRIPTION:

GATCTATGTC TNCTGCCTGG CTCCTAGATG GCTCTCCGGG CAGGTNCTGG CCAAGGACAT 60
CATCTAGGCA GGGGGAGAGC CTGGNCTGAA CAGCTGTNAC CAAAACTCCC TTCTNCCCCA 120
CCCTGCCCCC TCCACTTCCT GCCCTCTGTT CCATCTTCCC CCTTCCCAA GGCACAGCC 180
TTTATTCCAG GCCCAGGGAT GTAGGAGGGG GAAGGAGGAA ACAGGAAGCC CAGAGAGGGC 240
AAAGGGCCTA CCTCGGGGCG CGAACCATGC CCCANACTAT TATCTCAGGG CTTTCTGGGC 300
ACTNGCACTT CAGCGTGGCC CACCTGCCCA TGCCCTGAGG CCAGTTNGCG AGGGGTGGCT 360
CCTGAGGGTT TTTATAACCT TTGTTGNTA ATGTTTAATT TTTGCATCAT AATTTCTACA 420
TTGTCCCTGG AGTGTAAAGAN 440

SEQ ID NO:2100

LENGTH:411

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02402

SEQUENCE DESCRIPTION:

GATCAAAAGG CTGAAAGGTT TGCTCACCCA GCACGGCATC CCCTACACGA GGCCACAGA 60
AACTTCCAAC TTGGAGCACT TGGGCCACGA GACGCCAGA GCCAAGTCTC CAGAGCAGCT 120
GCGGGGTGAC CCAGGACTGC GTGGGAGTTT GTGACCTTGT GGTGGGAGAG CAGAGGTGGA 180
CGNGGCCGAG AGCCCTACAG AGAAGCTGGC TGGTAGGACC CGCAGGACCA GCTGACCAGG 240
CTTGTGCTCA GAGAAGCAGA CAAAACAAAG ATTCAAGGTT TTAATTAATT CCCATACTGA 300
TAAAAATAAC TCCATGAATT CTGTAAACCA TTGCATAAAT GCTATAGTGT AAANAAATTT 360
AACCAAGTGT TACTTTAAAC AGTTCGTACA AGTAATGNTT ATAATTCTAA A 411

SEQ ID NO:2101

LENGTH:408

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02403

SEQUENCE DESCRIPTION:

GATCTGGAAG GCTTGAGCCT CCTTGGGTTC GTCTACAAAT TGGAAGGAAA TATGAATGAA 60
GCCCTGGAGT ACTATGAGCG GGCCCTGAGA CTGGCTGCTG ACTTTGAGAA CTCTGTGAGA 120
CAAGGTCCTT AGGCACCCAG ATATCAGCCA CTTTCACATT TCATTTTATT TTATGCTAAC 180
ATTTACTAAT CATCTTTTCT GCTTACTGTT TTCAGAAACA TTATAATTCA CTGTAATGAT 240
GTAATTCTTG AATAATAAAT CTGACAAAAT ATTAGTTGTG TTCAACAATT AGTGAAACAG 300
AATGTGTGTA TGCATGTAAG AANGAGAAAT CATTTGTATG AGTGCTATGT AGTAGAGAAA 360
AAATGTTAGT TAACTTTGTA GGAAATAAAA CATTGGACTT AACTATAA 408

SEQ ID NO:2102
LENGTH:397
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02404
SEQUENCE DESCRIPTION:
GATCCGAGAG GTGGCCAACA AAGTCAAGGT CCCCTGCTG GATTAGGCA GCCCCCAACT 60
GGCCATGCAC TCTATCCGN AGATGGCCTG CACCACAGGA GTCCTCCANA CCCTNACCCT 120
CTTCAAGGGC TTCTTTAAGC TGTTCCCTTC TCTAAGCCAT AATCTCTNAG TGGATTGAGC 180
CCTCTTGAA AGACTTCTCT GCCATCCCTT TGCACCTGAN AGGGGAAGTT CTCAGCTGAG 240
CTGAAGCTGG ATTATTAAAG TGGATTGTAA CTCAGACTCT CCGTGCTACG CTTATTTGGA 300
GACTAGAGGA GTGGGAGTTG AGCCTGGCTT GAACCTTTGG AACCAGAAAA GTTGGGGAGC 360
AGGTGGAGGA GGCCACACTC CTGGGAGCTT GATGGTN 397

SEQ ID NO:2103
LENGTH:219
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02406
SEQUENCE DESCRIPTION:
GATCAGCCCT TTTTCCCATC CTGCCCTATG GTTCTCTAGC CACCTGTGCA TGCATGTGTA 60
TTTCTGCCN GTTCTATGGT GTGTGGATGT GTGTGCATGA ATCTGTCATA TAGAGGGGGT 120
CCGAGCTGGA ATCCTAGAGC ATTGCTGCCC TGGGGCCTGA TGTTCTTGGC TTCCTCAGAG 180
CATGTAACAG GAAATTAAAT GGGATGAGTG TTTGGTAAA 219

SEQ ID NO:2104
LENGTH:380
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02408
SEQUENCE DESCRIPTION:
GATCCTACCT CCAACTCCTG ACTCTATAGG TCTCACTCTT TTTTATTGT CCTANNNTA 60
CATAACATAA AATTTATAAA TTAAATATTC TAGGGTATAG TTCAGTGGTA TTAAGTACAT 120
TCACACTGAT GTGCAACCAT CATTATCATC CATTCCCAAA ACTTTTCATC ACCGCAAATA 180
GAAAAGCTGT ACCCATGAAA CAATAACTTC CATTGCCTCC CCCTCAGCCT TTGGTAACCT 240
CTATTCTACT TTCTGTTTCT ATGAATTTGA CTGTTCTAGG TACCTCATAT AAGTGGAATC 300
ACACAATATT TGTCCCTTTG TGTCTAACTT ATTTCACTTA GCATGTTTTT AAGATTTATC 360
TGTACTGTAC CATGTATCAN 380

SEQ ID NO:2105
LENGTH:378
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02409

SEQUENCE DESCRIPTION:

GATCTGTGCT CTCCTAGCCC AAGAGACCCC TGGAGGGGCT GGAGTTTAT CCAGCGNCTC 60
 GTCGTATGTT TGGCTGAGCA CCTGTGGCCT GGGTGCAGGT TAACTTCTTG TTATCAGGAG 120
 CCCACTATGC AGAGGCCAAA GGTCGGCAGC CAGCGAGGCT ATGAATTGGA CCTTTTGGT 180
 ATCTGTGTNA CTGNTCTGTG NCCATNCTTA GNCAACTTGC TGGCGTGACA AGTGCCCA 240
 AGTAACACAC CAGGTACCCA GAGNAGGGTG GACAGGAGAG ACCTGAATNA CAGCAGTANG 300
 GAATTCCTCA ANGNTGTGNC CTCGCCCATG AANTTGTTCC AANTTGAAGG TNANNAGGGN 360
 CACCAATCAG GGTGAGN 378

SEQ ID NO:2106

LENGTH:374

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02411

SEQUENCE DESCRIPTION:

GATCCAGAAG TACAAGGTGG TCCTGGCCCC GGAGACGGNG GAGTTGAAGA GTGTGGCCCC 60
 CATTGTCTGT GTTCCAATA AGAAAGTGGG CCTGCAGTTC CTGCAGAGAC AGTGCTGAGC 120
 TGAGTCTCCG CCTTGCTGGG GCTTGTCTTA GAGGCTCCAG CTCTGGCACA GTGGTTCTCTG 180
 GCTGCTGCCA TGTCTCANAT GAGGAGGGAG AGAAGGAGGC CGCCAGACTC GAGAGGTGGG 240
 AGGAACTCCT TGCACACACC CTGAGCTTTT GCCACTTCTA TCATTTTGA GAACTCCCTC 300
 TCAGCTAAAA GGCCACCCTT TTATCGAATG CTGTCCTTGG GAAGATATAA AATAAAGGGC 360
 TTTTATTCT TAAA 374

SEQ ID NO:2107

LENGTH:369

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02412

SEQUENCE DESCRIPTION:

GATCCAGCCC GACCTGCGAG ANTGATGGAG ACCATGCACC GCATGAGCCA CCTCCCACCC 60
 GACTTTGAGG GCCGCCAGAC GGTCAGCCAG TGGCTGCAGA CCCTGAGCGG ATGTCGGCGT 120
 CAGATGAGCT GGACGACTCA CAGGTGCGTC AGATGCTGTT CGCCTGGAGT CAGCCTACAN 180
 CGCCTTCANC CGCTTCTNA TGCCTGAGCC CGGGGANTAG CCTTGNACAG CCGGGAGAGT 240
 CTGAGGCNTG GTCCTGGTCC CTGTCCGCAN AGAGGCCGTG NNATCACANA GCTANTGTCT 300
 GAGTGGCTGT CTGGNTCTGC TTTGGGTAAG ACTTTGGGGC CGGCCTCCCA NAATAAGGTG 360
 TCTCGGAAA 369

SEQ ID NO:2108

LENGTH:368

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02413

SEQUENCE DESCRIPTION:

GATCAGAGCC AAGAAGCGTC TGCGGCAGAG TGGGGAAGAG TTGCCGCCAA CCTCCTAGGC 60
 GCCCCGCCCA GCTCCCTTTG ACCCCTGGGG CAGGGCAGGG GGCAGGGAGA GACAAGGCTG 120

CTGCTATTAG AGCCCATCCT GGAGCCCCAC CTCTGAACCA CCTCCTACCA GCTGTCCCTC 180
 AGGCTGGGGG AAAACAGGTG TTTNATTTGT NACCGTTGGA GCTTGGATAT GTNCGTGGCA 240
 TGTGTGTGTN TGTGTNANAG TGTGAATGCA CAGGTGGGTA TTTAATCTGT ATTATTCCCC 300
 GTTNTTGAA TTGNNTTCCC CNATGGGNCT GGGGTACTTT ACATTCAATA AATACTGTTT 360
 AACCCAAA 368

SEQ ID NO:2109

LENGTH:368

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02414

SEQUENCE DESCRIPTION:

GATCACAGGA AGTGGAGGAG CCAGAGGTGC CTTTGTGGAG GACAGCAGTG GCTGCTGGGA 60
 GAGGGCTGTG GAGGAAGGAG CTTCTCGGAG CCCCTCTCA GGCTTACCTG GGCCCTCCT 120
 CTAGAGAAGA GCTCAACTCT CTCCCAACCT CACCATGGAA AGAAAATAAT TATGAATGCC 180
 ACTGAGGCAC TNAGGCCCTA CCTCATGCCA AACAAAGGGT TCAAGGCTGG GTCTAGCGAG 240
 GATGCTTGAA GGAAGGGAGG TATGAGACCG TAGGNANAAN GGCACCATCC TCGTACTGTT 300
 GTCATATGA GCTTAAGAAA TTTGATACCA TAAATGGTA AAGACTTGAA AAAAGTANAA 360
 NATGTTTN 368

SEQ ID NO:2110

LENGTH:368

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02415

SEQUENCE DESCRIPTION:

GATCTTGTTT TTGATGTGGA CATAGGCCCT CTTTTCCAGA CTCCTCGTGA AGTGGCCCAG 60
 CAGGCTGTGG ATGCGGATGT GCATGCTGTG GGCCTAANAC CCTCGCTGCT GGTCAATAAA 120
 CCCTAGTTCC TGAATCATC AAAGAACTTA ACTCCCTTGG ACGGCCAGAT ATTCTTGTCA 180
 TGTGTGGAGG GGTGATACCA CCNTCAGGAT TATNAATTTT TGTTTGAAGT TGGTGTTC 240
 AATGTATTTG GTCCTGGGAC TCGAATTCCA AAGGCTGCCG TTCAGGTGCT TNATGATATT 300
 GAGAAGTGTT TNGAAAAGAA GCAGCAATCT GTATAAATA AAAATATCAC AAGAGAACAC 360
 CTGTACTN 368

SEQ ID NO:2111

LENGTH:365

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02416

SEQUENCE DESCRIPTION:

GATCGAAAGA AATCTAAGTG ATACGGCCCA ATGAAGCTAA AATATAGCCT TCTGTTAAGC 60
 AAATAGTATT TCCTTTCCCC AAGTAGTTCA TTTTCTAGAT GCTTGTCAAA TGAATTAATG 120
 TCCTCTGATG AAGAGTGTCC TTCCGTTTCT AAGGTCTTCT CAATCTCAGC AATAGAGCTT 180
 CCCAGCAGCG TTCAAGACAC ATCATTTATA CACAGGCACA GGGGCCTTCC TGAAATGGGT 240
 GCATTTTAC CACTACAAT CATGTAATTT TTTTGAAAT TTTTAAAAT TTTCGNTNCT 300

TTACATTACA ATTGGGTGAA ACACATTTTA CAGCTCTCAA TAAATGTTTG CTGGTCGCTC 360
TGAAA 365

SEQ ID NO:2112

LENGTH:363

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02417

SEQUENCE DESCRIPTION:

GATCAACGAT TACGTGGAGA AGGGTACTCA AGGGAAAATT GTGGATTGG TCAAGGAGCT 60
TGACAGAGAC ACAGTTTTTN CTCTGGTGAA TTACATCTNC TTAAAGGCA AATGGGAGAG 120
ACCCTTTGAA GTCAAGGACA CCGAGGAAGA GGA CTCCAC GTGGACCAGG TGACCACCGT 180
GAAGGTGCCT ATNATGAAGC GTTTAGGCAT GTTTAACATC CAGCACTGTA AGANGCTGTC 240
CAGCTGGGTG CTGCTGATGA AATACCTGGG CAATGCCACC GCCATCTTCT TCCTGCCTGA 300
TGAGGGGAAA CTACAGCACC TGGAAAATGA TTGACCAAAA TACCAAGTCT CCCCTTCTTC 360
ATN 363

SEQ ID NO:2113

LENGTH:362

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02418

SEQUENCE DESCRIPTION:

GATCCAGTC GCATACCAGG TGTCCTCCTC CAGGTCGTGA ACGGCAAAGG CACTGCCCCG 60
ATCGCCATAG CAGGTGTCTT CTTGGTACTT AGACATGCCA GCACAGAAGG TGTGTTTATT 120
CAGTATGGGC TGCACCCCTA CAGGGCTCTT CGGTGTCTTC CATCCAGGAC TGGGTTTACA 180
AGACCATAGC TGAGAACTAA TGCAAGGCTG GCCGGAAGCC CTTGCCTGAA AGCAAGATTT 240
CAGCCTGGAA GAGGGCAAAG TGGACGGGAG TGGACAGGAG TNGATGCGAT AAGATGTGGT 300
TTGAAGCTTG ATGGGTGCCA GCCTGCATTG CTGAGTCAAT CAATAAAGAG CTTTCTTTT 360
GN 362

SEQ ID NO:2114

LENGTH:362

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02419

SEQUENCE DESCRIPTION:

GATCNGACAG GCACCAGCAA TGACACAGCA TAACTGTTG GGCACAGGAA AGAGGCTTGA 60
CACCACCAGC CCACCAGGAA ATGCAGTTCA GCCACCAGCA GGACACGAGG AACCTGCACC 120
ACAGCCGCAG TCAAGAGAAT GCTGGTGGTG CCAAGNTGCA GGGTGTGGCC TGCTGGAATG 180
GAAGCGCATG GTGGTNNCTA TAAAGTCAAT GNCACAGCAC ATGCCAGCA ATCCACTGTG 240
GGATTNGNGA TGANACTANG CNCATAAAAC TGTNCGAATT TTNCTGTGCT TTTCATATCN 300
TCAATNTGAA TCAANTGCTT CATTGGGTAC TGTAAGTGTG GNTACTTNAG TGAATCTCTN 360
TN 362

SEQ ID NO:2115

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02420

SEQUENCE DESCRIPTION:

GATCATATAG TAGGTTTAGG TTAACTTTT TAAGAAATTG CCAAGCTTTT CCAAAGTGGC 60
TGTCCCTCTT TACATTTCCA CCAGCAATGT ATAATGAATG GTTCAGGTTT CTCCACATTC 120
TTGTCGGCAC TTGGACTTTT CTGTTTTGTT GTAGCCATTC TAGTGGATGC AAAGTGGCAT 180
CTCATTATGG TTCATTTGCA TTTCTCTGAC AACTAATGAT TTTGAGCATC TTCATGCGAT 240
TGTTAACCAT TTGTATATCT TTAGTGAAAT ATCTATTCAA TTATTGCCA TTTTAAATT 300
GGNTCACATG GCTNATTAAT GNATTGTAAG AAAGGTTTAC ATATTCCTGG ATACN 355

SEQ ID NO:2116

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02421

SEQUENCE DESCRIPTION:

GATCATGATT TTGTAGTACA GGAAGACTTC ATGAAAGCAG TCAGAAAAGT GGCTGATTCT 60
AAGAAGCTGG AGTCTAAATT GGACTACAAA CCTGTGTAAT TTAGTGAAG ATTTTGGATG 120
GCTGCATGAC AGANGTTGGC TTATTGTAAA AATAAAGTTA AAGAAAATAA TGTATGTATT 180
GGTAATGATG TCATTAAGAG TATATGANTA AAAATATGAG TAACATCATA AAAATTAGTA 240
ATTCAACTTT TAAGATACAG AAGAAATTTG TATGTTTGTG AAAGTNGCAT TTATTGCAGC 300
ANGTTACAAA GGGGAAGTGT TGAAGCTTTT CATATTTGCT GCGTGACATN 350

SEQ ID NO:2117

LENGTH:375

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02422

SEQUENCE DESCRIPTION:

GATCCGCAGN CAGAAGCTCT GCCCTTCTGT ATCCTATGTA TGCAGTGTNN TTTTNCCTGC 60
CAGCTTGGGC CATTCTTGCT TAGACAGTCA GCATTTGTNT CCTCCTTTAA CTGAGTCATC 120
ATCTTAGTCC AACTAATGCA GTCGATACAA TGCGTAGATA GAAGAAGCCC CACGGGAGCC 180
AGGATGGGAC TGGTCGTGTT TGTNCTTTN TCCAAGTCAG CACCCAAAGG TCAATGCACA 240
GAGACCCCGG GTGGGTGAGC GCTGGCTTCT CAAACGGCCG AAGTTGCCTC TTTTAGGAAT 300
CTCTTTGGAA TTGGGAGCAC GNTGNNCTCT TGAGTTTGGG GCTTTTAAAA GTACTTTNTT 360
TACCACATTT GGAAA 375

SEQ ID NO:2118

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02423

SEQUENCE DESCRIPTION:

GATCTCTAAC CAGAAATAAA CAGGAAGACT CAGTNGTTTA CAAAAGACAT TTAGTTTTA 60
CACGTACAGA AAATTCTACC CNGGCATTAC AGAATTCTTA GACTTCTTAA ATTCCTGATT 120
TTCCTTGGTA TTTACATTTT GATAAGGGAG CCAATGGTTC TTCAAACATT TGAAAAGAAC 180
ACATACACAC TGGACAATTT CAAACGNTAC AAACAAACGC AACTGTCCTT CTTTCTCATT 240
CCTGTCCTTC AGCCACCCAG TTTCTTCTCC CCTGAGGGAA TCAGTTATCA TTNGCTGGGT 300
CATACTTCCA GATTATCCTG TGCCTATGTA AGTGTGTGN 339

SEQ ID NO:2119

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02424

SEQUENCE DESCRIPTION:

GATCTGGGAC GTNCACGAGT NAGGGGCTGG CCACCCAGCC CACAGCCTTG CCTGACCACC 60
CTCCAGCAGA TAGACGCCGG CACCCCTTCC TCTTCCTAGG GTGGAAGGGG CCCTGGTNCN 120
NGCCTGTAGA CCTATCGGNT CTCATCCCTT GGGATAAGCC CCAGTCCAGG TCCAGGAGGC 180
TCCNTCCCTG CCCAGCGAGT CTTCCAGAAG GGGTGAAAGG GTTNCAGGTC CCGACCACTG 240
ACCNTTCCCG GGTGNCCTCC CTCCCANCT TACACCTNAA GCCCAGCACG NAGTAGNCTT 300
TGAACAGAGG GAGGGAAGGA CCCATGGGTC TCCN 334

SEQ ID NO:2120

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02425

SEQUENCE DESCRIPTION:

GATCAAAGAG AAAATAAAAA ATCGCTACTT CCCTGCCTTT GAAAAAGTCT TAAAGAGCCA 60
TGGACAAGAC TACCTTGTTG GCAACAAGCT GAGCCGGGCT GACATTCATC TGGTGGAACT 120
NCTCTACTAC GTCGAGGAGC TTGACTCCAG TCTTATCTCC AGCTTCCCTC TGCTGAAGCT 180
CTCCAGGACA CTGGCCCCC ACACTGTATC TCTCACTGAG AAAAGGTGGT CCCATGGCCC 240
TGAAAACCAG AATNAGCAAC CTGNCCACA GTGAAGAAGT TTCTACAGCC TNGGCAGCCC 300
AAGGAAAGCC TCCCATTGGA TGAGAAATCN 330

SEQ ID NO:2121

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02426

SEQUENCE DESCRIPTION:

GATCGAAGTA AAATAGAAAT GGGACTNGCT TTCCACAGGA AGTAAACTGC TTCAGAGCCC 60
ACAGTCCCTT GCTCAGTGTC CGGAAAGAAG TCAGTCATCC CTGTTGGCAG TAAATCTTCC 120
CACAGGCCGT CCATTAGAGA TTAACTAGA TATGTTCAAT AGAAAGAGTC TGAGGCAAGT 180
GGAAATGAGG NNCGGAAACT TAGGTTGGGA GAATATTTTT NTTNTATTCA TTCTGTTTGC 240
TTAATTCAGA GTACAGTTTG TGCTATTTCA TATCTGTACT CCAGGCAGAA ATATAACTTG 300

AAAATACTGT GTCTAAAGAA ATTTKAN

327

SEQ ID NO:2122

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02427

SEQUENCE DESCRIPTION:

GATCCTCGTC ATCAAGGATG GCTGCATCGT GGAGAGGGGA CGACACGAGG CTCTGTTGTC 60
CCGAGGTGGG GTGTATGCTG ACATGTGGCA GCTGCAGCAG GGACAGGAAG AAACCTCTGA 120
AGACACTAAG CCTCAGACCA TGAACGGTG AAAAAAGTTT GGCCACTTCC CTCTCAAAGA 180
CTAACCCAGA AGGGAATAAG ATGTGTCTCC TTTCCCTGGC TTATTTATC CTGGTCTTGG 240
GGTATGGTGC TAGCTATGGT AAGGGAAAGG GACCTTTCCG AAAAACATCT TTNNGGGGAA 300
ATAAAAAATGT GGACTGGTGC GAGN 324

SEQ ID NO:2123

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02428

SEQUENCE DESCRIPTION:

GATCTGAACA TTCAAAAGAA AGCTTTGGAA AAAAAGAGCT GGCTGGCCTA AAAACCTAAA 60
TATATGATGA AGATTGTAGG ACTGTCTTCC CAAGCCCCAT GTTCATGGTG GNNCNNTGGT 120
TATTTGGTTA TTTTACTCAA TTGGTTACTC TCATTTGAAA TGAGGGAGGG ACATACAGAA 180
TAGGAACAGG TGTTTGCTCT CCTAAGAGCC TTCATGCACA CCCCTGAACC ACGAGGAAAC 240
AGTACAGTCG CTAGTCAAGT GGTTTTTTAA GTAAAGTATA TTCATAAGGT AACAGTTATT 300
CTGTTGTTAT AAAACTATAC CCACTGCAAA AGTAGTAGTC AAGTGTCTAG GTCTN 355

SEQ ID NO:2124

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02429

SEQUENCE DESCRIPTION:

GATCTCAGAA CTGAAGGCCG CCCTGACATG AAGACTGAGC TCTTTTCCAG CTCATGCCCCA 60
GGTGGAATCA TGCTGAATGA GACAGGCCAG GGTTACCAGC GCTTTCTCCT CTACAATCGC 120
TCACCACATC CTCCCGAAAA GTGTGTGGAG GAATTCAAGT CCCTGACTTC CTGCCTGGAC 180
TCCAAAGCCT NCTTATTGAC TCCTAGGGAA TCAAGAGGCC TGTGAGCTGT CCAATAACTG 240
ACCTGTAAC TCACTAAGT CCCAGATGG GGNACANTGG GGAGNTNGAG TTGTTGGAGG 300
GAGGAAGCTT GGAGACTTCC CAGN 324

SEQ ID NO:2125

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

00827

CLONE:HUMGS02430

SEQUENCE DESCRIPTION:

GATCCATCTT CATCCATTGC ATTGGAAACT NCTTTATGCT GCTGCAGTCT GCAAAGTCTA 60
GAGCTTTTAT CAGGCCATGT CATACCCAAG AAAGCACCTA TTAAAGAAA AAACAATTCC 120
CTGAGCTCTC AACTCCAAGT TGTAAGTTTG GTGTCTTCTT TGTCTTACT TAAAAAGTC 180
ATGTGTTAAT TTNNTCCTG CCTGTATTTG TATGCAAAAT GTCCTCTATC TGCTATNAAA 240
GAAAAGCTAC GTAAACCACT ACATTGTANC CTTCTAAGTN ATTNTTAATT AGNAGGGNAT 300
TATNTTGCAG TACCANTTGG GAAA 324

SEQ ID NO:2126

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02431

SEQUENCE DESCRIPTION:

GATCGTGAAG ACCTGCTGAG CCAGCCTGTT CTCCGGGCCT GAATGTCTGG GGTGCTTGTG 60
CCTTTTCTGA GAAGCGTTGT GACTGCTCAA CATCCCCATC AAGGTTTGAG TCCACAAAAG 120
TGGACCTCCC TATCATGCTT CCCCTTCCCT CTAGCATGTG GGAAGGGACT GCTGTGAAGA 180
ATGNCAGATG TGGGGCCTCT GCCAAGTTCT TGCATTGCTA AATAAGGGCT TCCTCTGCCT 240
TCTACCTACA GTGCATTGTA ACTGCCTTCT GAAAGAGGTC CAGGGAGGGA TTAGGAAAT 300
AAAGNTTCTA CCTATTTGAA A 321

SEQ ID NO:2127

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02432

SEQUENCE DESCRIPTION:

GATCCTAAGC GAAGATGGAT TTCAGTTCAT CAAATCATCA TTAATGACTT TATGTATTAT 60
TTGCACAGGG AGAATTGAAA CTGAGTATAA TCAATAAGCT AGATACGAAA TCAGTTTCTC 120
AAACTGAGCT TCAGAAAGGG GCATTTTGTA CTCTTGTTTT TGCATAACTG GTTTTGTTTT 180
TTTGCAGAAT TAACTATAAC ANTCACTGGC TACCGAAGTA AACTGATGTA CTGAATTCCA 240
TAATACATAA CATTCAATTT TTACCACTNC TGTTTAGCGA ACTTGATATC TTATTTCTCT 300
TTCAGNTTAA AAAAAGAAA 319

SEQ ID NO:2128

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02433

SEQUENCE DESCRIPTION:

GATCACACCT GAAAGCAGTG GTCCCAGCTC TGTGCTGTGG GACATCACAG GTCCTAAACA 60
GTGATAGAGA AAGGGCTGGG GAGTGGCAGC TGGAATCTCT GCTTCCGTCT GAACATCTGG 120
ACACACATGT CAGAGAATCT TTGCATTAAA TGGACTGCCC AATCTATTTG GTGATTAAAT 180
GGCTGTGCGG TGAGGGGAGA ACCCTGGGCA GTCTGGAGAC TGAGGTGCCA TTCTCGGCTA 240

GAGACACCAC CCAAAGAAGA GATGGGCTGG CTAATAAGA CAAGTNTCAG TTGAATAAAT 300
GTCCTTAAAC CTAAA 315

SEQ ID NO:2129

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02434

SEQUENCE DESCRIPTION:

GATCATTGTC CCTACAGACA CCCAGAACAT CTTCTTCATG AGCAAAGTCA CCAATCCCAA 60
GCAAGCCTAG AGCTTGCCAT CAAGCAGTGG GGCTCTCAGT AAGGAACTTG GAATGCAAGC 120
TGGATGCCTG GGTCTCTGGG CACAGCCTGG CCCCTGTGCA CCGAGTGGCC ATGGCATGTN 180
TGGCCCTGTC TGCTTATCCT TGAAGGTGA CAGCGATTCC CTGTGTAGCT CTCACATGCA 240
CAGGGGCCCA TGGACTCTTC AGTCTGGAGG GTCCTGGGNC TNCTGACAGN AATAAATAAT 300
TTCGTTGGAA A 311

SEQ ID NO:2130

LENGTH:309

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02435

SEQUENCE DESCRIPTION:

GATCCCAACT GTCCTGCGC CGCCGGTGAC TCCTGCAAAT GCAAAGAGTG CAAATGCACC 60
TCCTGCAAGA AAAGCTGCTG CTCCTGCTGC CCTGTGGGTT GTGCCAAGTG TGCCCAGGGC 120
TGCATCTGCA AAGGGGCGTC GGACAAGTGC AGCTGCTGCG CCTGATGCTG GGACAGCCCG 180
CTCCCAGATG TAAAGAACGC GACTTCCACA AACCTGGATT TTTTATGTAC AACCTGACC 240
GTGACCTTTT GCTATATTCC TTTTCTATG AAATAATGTG AATGATAATA AAACAGCTTT 300
GACTTGAAA 309

SEQ ID NO:2131

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02436

SEQUENCE DESCRIPTION:

GATCCTGGCC TCGCAGTTCC TATCCNTGA CCCAGAACAG CTCACCAAGG AGCTGCAGCA 60
GCATGTGAAG TCAGTGCAGC CCATACAAGT CCCAAANAAG ATAGAGTTTG TTTTGAACCT 120
GCCAAAGCTG TCACAGGGAA ATTCAACAGA CCAAACCTCG NGNCAAGGAG TGAAGATGT 180
CCGGAAAAGC CCGTNCGAGT GAGNCGTCTA GGAGCATTCA TTTGGATTCC CTCTTCTTTC 240
TCTTTCTTTT CCCTTTGGGC CTTGGCTTAC TATNATGATA TGAGTCCTTT ATGAAGACAT 300
GATGAAA 307

SEQ ID NO:2132

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02437

SEQUENCE DESCRIPTION:

GATCCTGGTG GCGACCATGG AGAGGAACT GGAGGGCAGG GATGGAGCTG AAANCTTGGC 60
GGCCCAGAGA GAGGTCCACC CCAAGCAGCC TGAGCCCTCA GCCACCCCCC AGCTCCCTGG 120
CAGCTCCCTT CCACCTGCCA ATGTCAGCGC CACACTGGTG TCTGAAAGGA ATAAGGAGAA 180
CAGGACAGAC TAACTTTTAA AATGATATGA AGAAATCAGA GGTGAAAATT GTACATTGGG 240
AATATATTTA TGCAAATTTT ATTGAAATTT ATTGTAAATA AAGATTTTCT CAGTGGTCTA 300
GANAAA 306

SEQ ID NO:2133

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02438

SEQUENCE DESCRIPTION:

GATCTGGGCT GGTCCCTTTC CCATAAAATN AGGTCCCTGG TTGTATGTTT CCATAGCACC 60
CCATACTTCC TCTCTNAGAA TAATCATTTT CCTTGTAATG CTCAGCATCC GCATCCTGCT 120
TGACTGCAAA CTTGCTGAAG GTAGGGACTG TTTGTCTTGG ACTTCGCTGC CAGTCCTTAG 180
AACAGTGTCT GGGACACAGT GTGTTCTCAA ATATTGTGTT CTGGAATAAA TGAATGACCT 240
AAATCAGTCT TTTAGGGATT TACTGTTAAC CACCATGGGA AAATTAAATA AATGCGGGGA 300
AGGAAA 306

SEQ ID NO:2134

LENGTH:305

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02439

SEQUENCE DESCRIPTION:

GATCTGACCC CACAGCCTTT GGCCTGCTCA CCCGACCAGC CTGGGCCGCA TTCCCTGCAG 60
GACCTCCCGG GTCAGGCAGG GCGGCCCCCT GCTCCACACA CTGCTGCATC TTGGGTCTCA 120
GGGACCCAGA CAGATGGACT TACATGGAGC TGGGCACTGC CCTGCCTCAA CAGGGTCCAT 180
TGCCTCCTCG CCTCCAGAAC TTGGAGCAGG GAAGTGGGCA CCCTGAGGCC TCCAGCACCA 240
GTTCCGTCAT TCTCGTTCCT GGGGAACCCC CACTCTGACC TGTTATTAAA GTTCACATTT 300
TGAAA 305

SEQ ID NO:2135

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02441

SEQUENCE DESCRIPTION:

GATCAACCTG AGAAAAATTG CTGAGCTCAT GCCAGGAGCA TCAGGGGCTG AAGTGAAGGG 60
CGTGTGCACA GAAGCTGGCA TGTATGCCCT GCGAGAACGG CGNGTCCATG TCACTCAGGA 120
GGACTTTGAG ATGGCAGTAG CCANGTCAT GCAGAAGGNC AGTGAGAAAA ACATGTCCAT 180

CAAGCANTTA TGGANGTGAG TGGACAGCCT TTGTGTGTAT CTCTCCAATA CAGCTCTGTG 240
GGCCAAGTAA A 251

SEQ ID NO:2136

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02442

SEQUENCE DESCRIPTION:

GATCTGCATC CCCAAAAGTA TCACTCCTTC TCGAATCCTT CAGAACATCA AGGTGTTTGA 60
CTTCACCTTT AGCCCAGAAG AGATGAAGCA GCTAAATGCC CTGAACAAAA ATTGGAGATA 120
TATTGTGCCT ATGCTTACGG TGGATGGGAA GAGAGTCCCA AGGGATGCAG GGCATCCTCT 180
GTACCCCTTT AATGACCCGT ACTGAGACCA CAGCTTCTTG GCCTCCCTTC CAGCTCTGCA 240
GCTAATGAGG TCCTGCCACA ACGGAAAGAG GNAGTTAATA ANNGCCATTG GANGCATNAA 300
A 301

SEQ ID NO:2137

LENGTH:302

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02443

SEQUENCE DESCRIPTION:

GATCCGAGAG GGCATGGCCG CCCTGCAGTC TGACCCCTGG CAGCAAGAGC TCTACGCAA 60
CTTCAAAAGC ATCTCCAAGG CCTTGGTGGG GCGGGGTGGT GTGGTCACCA GCAACCCACT 120
TGGCTTCTGA ATACTCCCGG CCAGGGCCTG TCCAGTTAT GTGCCTTCCC TCAAGCCAAA 180
GCCGAAGCCC CTTTCCTTAA GGCCCTGGTT TGTCCCGAAG GGCCCTAGTG TTCCCAGCAC 240
TGTGCCTGCT CTCAAGAGCA CTTACTGCCT CGNAAATAAT AAAAATTTCT AGCCAGGTCA 300
AA 302

SEQ ID NO:2138

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02444

SEQUENCE DESCRIPTION:

GATCATCCAG AAGGAGCCCG TTGAAGTGGC CCCAAGCCAG CTCTCTGCAT TTCGTACTCT 60
CCTGTTTTCT GCACTTGGTG AAGAGGAGAA GATGATGGTG AACAACTATC GCCCACTTCA 120
ACCCTTGATG AACCGBAAGG TCTGGGCGTC CTTCCAGGCC ACTAATGAGG GCACAAGGTC 180
CTAGAGACAT TAGGTCCACA TGAATAGCAG AACTGACTTT GAAGGAAGGA AGCGTTGTTT 240
CCCAAGTTTC ACAATGTGAT TGTACATGAC TTCTGAAATT AAAAAGAGAG CATGAAA 297

SEQ ID NO:2139

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02445

SEQUENCE DESCRIPTION:

GATCTATGCC AGCAAAACAT CATTTTGAGA CAAACATTTT TGTGGCAGAT GTTTTCCTA 60
AAAAGTACTA TATCATCCAA GAAATATTTG AGTAAAATCC CTTGTTCTTT TGGGTGACAT 120
TAACTGACAT TTGCTTTTTT TCAAGACCTA ATAGAAAATA AGAAAGCCCA TAATGTATTT 180
AGAAACAGGA ATCCTCAGAG CAATTCTCTG TATTCTCATA TAATTTCAAT GTAAACAGA 240
AAACATATTG ATGTGTTGGT GATAGGCTTG AATTATTAAT AACTTCAAAA ACAA 295

SEQ ID NO:2140

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02446

SEQUENCE DESCRIPTION:

GATCGAGGCT GCAGGATATG CTCAGACTCT AGAGGCGTGG ACCAAGGGGC ATGGAGCTTC 60
ACTCCTTGCT GGCCAGGGAG TTGGGGACTC AGAGGGACCA CTTGGGGCCA GCCAGACTGG 120
CCTCAATGGC GGA CTGACTGAC ACATTGACTG ACGGGGACCA GGGCTTGTTT GGGTCGAGAG 180
CGCCCTCATG GTGCTGTGTC TGTGTGTGT AGGTCCCCTG GGGACACAAG CAGGCGCCAA 240
TGGTATCTGG GCGGANTCAC AGAGTTCTTG GAATAAAAGC AACCTCAGAN CAAA 294

SEQ ID NO:2141

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02447

SEQUENCE DESCRIPTION:

GATCTGGTTG GTGGATGAAC AAGTGTCACG CTGGACATCT CAATGGNGTT TATTACCAAG 60
GTGGCACTTA CTCANANGCA TCTACTCCTA ATGTTTATGA TAATGGCATT ATTTGGGCCA 120
CTTGGANAAC CCGGTGGTAT TCCATGAAGA ANCCACTATG AAGATAATCC CATCAACAGA 180
CTCACAATTG GAGATGACAG CAACACCACC TGGGGGGAGC ANACAGGTGG AGACGTAA 240
NGCCGTTT CAN TGNGTTTTCT NTTTAAAGNC TTTATCTGAC CNGGGGTANN GN 292

SEQ ID NO:2142

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02448

SEQUENCE DESCRIPTION:

GATCGGAAAA AAATCCTTGA ACGCAAAGCC AAGTCTCGAC AAGTTGAAAA AGAGAAAGGC 60
AAATATAAAG AAGAACTTAT TGAGAAAATG CAGGAATAAA TAGAACCTGT TGTGCAACCA 120
CGGTTTAAAC GGAGATTTTG AGGCTAGGGT GTGTTTCTTT CGAACTTTTC GGAATGTCTG 180
GAACATTTCA TTTCTGTTT TGTTACCTGT GCCTCTGTAA ATCTACTTTT GCAATTTTAA 240
GTAATAATTT TATGAATAAN AATGGGAAAT GCTTCCTAAA 280

SEQ ID NO:2143

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02449

SEQUENCE DESCRIPTION:

GATCCCATAA CAGGCTACCC CTTGGCCTCA TGCTGGAGTT GTGTGTGTCT GTCTTCATCC 60
CAGGCTGAGC TCCTTGAGGT GAGGATGTTG TGCTGTTTGC CTCCTCACA GTGCCTTGGT 120
CTTAGTGGAT GCCCAGTTGT CTTGTGAATG ACTTTTAAGA AGTGTACTTA AGAGAAAAAT 180
CCTACNTAT NNNNGTAAT TACAAGTCAT GTTTTGTNG CTAAAGGTG ATAAATCAGT 240
GTATATNATN NGNTAATGTC CATTAAAGCC AGTTTTTAAA 280

SEQ ID NO:2144

LENGTH:278

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02450

SEQUENCE DESCRIPTION:

GATCCTAGAG CCTGACGTTT AGTGAACCCA TGTTTCTGGG TGGGTGAAAG GGGCCCAACC 60
CTGCCCACTT CAGCCCAGCC CGCCCAAGGG GACTTGTGCC AGCAGAACAT GTNGGAGGAA 120
GAAGCCCCGT TTCCAGGGCA TCCGCAGCCC AGGGTAGGGA GAAATATTCT CTCCACTTTG 180
GGGGAGAGTT CTTGCTCTCG ACCTAGTGGT TTCTACTCTC ACCGACTTAT TCTGATTTC 240
GAAATAAAAT GAAATGTCTT ATTTTGGGA AAGTTAAA 278

SEQ ID NO:2145

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02452

SEQUENCE DESCRIPTION:

GATCCCACTG GGGCCTNTGG GAAGGNGACA GACTTATNAC TAGATGATTC GCTGGTGTCC 60
ATCTTTGGGA ATCGACGTCT CAAAAGGTTA TCCATGGTGG TACAGGATGG CATAGTGAAG 120
GCCCTGAATG TGGAACCAGA TGGCACAGGC CTCACCTGCA GCCTGGCACC CAATATCATC 180
TCACAGNTCT GAGGCCCTGG GCCAGATTAC TTCCTCCACC NNTCCNTATC TNACCTGCCC 240
AGCCCTGTGC TGGGGCCCTG CAATTGGAAT GTTGGCCAGA TTTCTGCAAT AAACACTTGT 300
GGTTTGCGGG TCAAA 315

SEQ ID NO:2146

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02453

SEQUENCE DESCRIPTION:

GATCCCAGGA CCATTTGGCT AGTGTGCCTA GGTGACCACA TGATTGCTGT TTTACCAGGA 60
ATGCAGCATC CCATTGACAA AACAAGTGCT CTGAGAAGGT TTAAAATACT ACAGNGAATA 120
TGGGANCACA GNCCTTGAAA TTTAGCTGAG TTGTAACAGC TGAAACTCCA AGAGGTGTCT 180

TCCTTGTTTN GAGGTGNACT AGTGTTGCTT CCAGAGGGCA GCTTGAAACC CGTAAAGCCT 240
GTTTTGGGGA ATCCTTTTTT GNCTTGCTTT GNTTN 275

SEQ ID NO:2147

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02454

SEQUENCE DESCRIPTION:

GATCATCAAT GATTTATTGG CACGTTCTAT TGGGATGGTC GAAGTTAATA CAGTAGACAA 60
ATACCAAGAT AAGGGACAAA AGTATTGTCC TAGTATCTTT TGTTAGAAGT AATAAGGATG 120
GAACTGTTGG TGAACCTCTG AAAGATTGGC GACGTCTTAA TGTTGCTATA ACCAGAGCCA 180
AACATAAACT GATTCTTCTG GGGTGTGTGC CCTCACTAAA TTGCTATCCT CCTTTGGAGA 240
AGCTGCTTAA TCATTTAAAC TCAGAAAAAT TAAA 274

SEQ ID NO:2148

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02455

SEQUENCE DESCRIPTION:

GATCGCAGAG AAGGCAGCTG ACATTATCAA GGGGCAGCCT GCACTCTGGG ACAAAGATGT 60
CCCTGTCTAC AAGCCCAGGA CGCTGGCCAC CCAGCGCTAA GACAGTTGCT GCTGGAGGAT 120
GACCAGGGAA GCCCCCTGAT AAGCCAAGAG GGCCAGCACA GCCCTTGCTC CCAGGCTCCT 180
GCCTGAAACT ATCTAGCACA CTAGGACCCA GGTGGTACCC TACTCAGTGG CTGAGAATTG 240
GATAAAGTCT TGGGAAATGA GACAAA 266

SEQ ID NO:2149

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02456

SEQUENCE DESCRIPTION:

GATCTTTAAC AAATGTTTTA AGCAATTTTA AAAAGGCAGG ATGTTATTGA CATTATACAC 60
TGAAGTCTTA ACATTTTAAC ATTTATAGTG CTTATTTGCA AAATTGTATA ATTAGGAATT 120
ATTTTCAGAGA CAATGTTTTT TTTTTCAGGT GAGTAGTTGC CGCGTAATAT CATTGGAGTA 180
CATTCTTTAT ACTGTTTGTG AAATTAATAC TAGCATATTA AGTGTAACAA TAGATTTAGA 240
AAACAATAAA AAATTGCATG CTAAA 265

SEQ ID NO:2150

LENGTH:264

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02457

SEQUENCE DESCRIPTION:

GATCCTAGTG TTTTAATTAC CTGTGTGCAG CTATTTTAAA TAGCATTTTA CTTGAATAAT 60
 ATGTATGTTG TCATTGTTTC ATGCTATACT TTGTGGGATA AAACCTGGGA ATGAGTGTGG 120
 TAAGAAATTT ATAAAGTTTT GCTTTTAAAA CGTGGACATA ACTCATTTT CTAGTTTTTG 180
 ACAATTGTGT GTTTTAGTGT CTAGTCTGCA GAGAGCTGTG TGATTAATAA ACGTGGAATT 240
 AACAGAATTT CCTCTCCCTG TAAA 264

SEQ ID NO:2151

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02458

SEQUENCE DESCRIPTION:

GATCCTGGGC TCATAGGCAG TCCCTTTCAC TTCCTTGTCT TGCTCCCTGC TATGCTGGAG 60
 ATGAATGTGA CTAAGAGGGC CATCTTGCTG GCTTAATGTG TGGCTGGAGA GACCAGCCTG 120
 GAGACAATGT GGCAAAATGG GCGCCTTCAT CCAGTCTGTC TAAGCCCTGT CGACTTGGGG 180
 AGGTGATTTT TTTCTGGTT CTATATGTNA AGCAAAATAA ATGTTTTAAA ATTAAGCA 240
 NNAAGCAGA ATGTGAGTN 259

SEQ ID NO:2152

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02459

SEQUENCE DESCRIPTION:

GATCAAAGCT GGACTGGAAG TTGTATCGTG TAATTATTTT TGTGTTCTTA ATGTTATTTG 60
 GTACTCAAGT TGTAATAAC GTCTACTACT GTTTATNCCA GTGTCTACTA CCTCAGGTGT 120
 CCTATAGATT TTCCTTCTAC CAAAGTTCAC TTTCACANTG AAATTATATT TGCTGTGTGA 180
 CTATGATTCC TAAGATTTCC AGGGCTTAAG GGCTAACTTC TATTAGCACC TTAGTGTGA 240
 AGCAAATGTT ACAA 255

SEQ ID NO:2153

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02461

SEQUENCE DESCRIPTION:

GATCTGTGCA GCAAAGCACC ATGGTACATG TNNTACCTAT GTAACAAACC TGCACATCCT 60
 GCACATGTAC CCTGGAACCT AATAAAGTT GGAAATTTT AAAAGAATG AATAAGACCT 120
 GGTATTTGAT AGCACAACAG GGAGACTATA GTCAACAGCA ATTTAATTGT ATATTTTAAT 180
 ATGACTAAAA GAGTATAATG GNTTGTGTTGT AACACAANTA AATGCTTGAG GGGATGGNCA 240
 CCCCNAAA 248

SEQ ID NO:2154

LENGTH:245

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02462

SEQUENCE DESCRIPTION:

GATCTTAAGC TTTGATAAGA GCTGTCCTGT GGCTGAGTAT GGTGTGTATG TNAAGGTGCT 60
TCCATCCAGG CTGGGTTTCAG AAGCCATAGC TGNGACTAAT GCAAGCTGGC CGAAGCCTTG 120
CTGAAAGAAG CTTTAGCTGG AGAGGCAAAG TGGCGGGAGT GGCAGGAGTG GATNNGATAA 180
GATGTGGTTT AAGTNATGGG TNCAGCCTGA TTCTGAGCAA TAATAAAGAN TTTCTTTTGC 240
CCAAA 245

SEQ ID NO:2155

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02463

SEQUENCE DESCRIPTION:

GATCCAGGAA GCTCCCAAAC CAGAGTGTGA GAAGGCACTT CTTGCCTTTC AGGAGAGTAA 60
GAACCTCTGC GAANCATGGA GAACTTTATG CAACAATTAA AGGAAAGTGG CATGACAATG 120
GAGGAGCTAA AATATTCTCT GGAGCTGAAG AAAGCTGAGT TGAAGGCAA ATTGTTGTAA 180
CACTACAGCT GAGCAGATGT AATAGAAATA AACCTATGAA TAAATTTNCT TCTTGGTTCT 240
GAAA 244

SEQ ID NO:2156

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02464

SEQUENCE DESCRIPTION:

GATCCTATAT CTTGGTNAAT ATGCTCCCAG ATACTTTAAA CATGGCAACC TTTTGGCCTA 60
AGAGAATGTT TGTTTCATGGA AAAAAGCTTT TGAGATGAGA GGGTGTCTTA CTTTCTTGTG 120
GCAATTGATT TTCTGTTTTA ACACCCTTTG GGTAATAATCT TGCAAAGAGC TTTTATAATT 180
NGTTTTACTG AATTGTATGG AGATTGTATA CCAAGTAAAG CTCTTTTAAA TTACAAA 237

SEQ ID NO:2157

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02465

SEQUENCE DESCRIPTION:

GATCCACGCT GGGCCGAGGA TGGGACGTTT TTCTTCTTGG GCCCGGTCCA CAGGTCCANT 60
GACACCTCC CTCCAGGGTC CTCTCTTCCA CAGTGGCGGG CCCACTCAGC CCCGAGACCA 120
CCCAACCTCA CCCTCTGAC CCCCATGTAA ATATTGTTCT GCTGTCTGGG ACTCCTGTCT 180
AGGTGCCCCCT GATGATGGGA TGCNCTTAA ATAATAAAGA TGGTTTTGAT TAAA 234

SEQ ID NO:2158

LENGTH:233

00836

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02466

SEQUENCE DESCRIPTION:

```
GATCCCTAAG CTGTAGAACA TTTTAACGTT GATGCCACAA CGCAGATTGA TGCCTTGTAG 60
ATGGAGCTTG CAGATGGAGC CCCGTGACCT CTCACCTACC CACCTGTTTG CCTGCCTTCT 120
TGTGCGTTTC TCGGAGAAGT TCTTAGCCTG ATGAAATAAC TTGGGGCGTT GAAGAGCTGT 180
TTAATTTTAA ATGCCTTAGA CTGGGGATAT ATTAGAGGAA GCAGATTGTC AAA 233
```

SEQ ID NO:2159

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02467

SEQUENCE DESCRIPTION:

```
GATCTGTGCA CACTTTCTAA ACAGCTTGTN ATGCAAGTNT GAGCCTATTG TGTTACTTGA 60
CCTTATTTTG GAAGTTTTGA ATTGGCCTAG GAGGAAACCC AGAAATGAAC CAGGGGTATG 120
TNATCACTTT TTNATATCA AGTCCTCACC CTCCTNCCAC ATAATGCTCT ATCCGGCTAA 180
GGTTGGAAC CTGAAGTTGG AGAAGGTGGA ATAAAGTTAC ACCTGGAAA 229
```

SEQ ID NO:2160

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02468

SEQUENCE DESCRIPTION:

```
GATCCCTGCG AATTACGAAA ACTACTACAT CCATGATTGC CCCAACCCCC TTGGGGTGGG 60
GCAGAAGGTG AAGCATCCCA ACTGACTAGA GACTCAGGCC CTGCAGNCC TTATAGAACC 120
TGTGGCCATC CCTGAGCACC CTGCCACCAG GTGACCTCGG CCATACTCAC TGCCCCCCTT 180
GGGCACCCAC TCACCNTAGA ATAAACTTAA CAGTGTCCCG TGGTAAA 227
```

SEQ ID NO:2161

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02469

SEQUENCE DESCRIPTION:

```
GATCTTACGA TGCCCTCTGT ACTGACCTGA AGGAGACCTA AGAGTCCTTT CCCTTTTTTGA 60
GTTTGAATCA TAGCCTTGAT GTGGTCTCTT GTTTTATGTC CTTGTTCTTA ATGTAAAAGT 120
GCTTAAGTGC TTCTTGGTTG TATTGGGTAG CATTGGGATA AGATTTTAA TGGGTATTCT 180
TGAATTGCTT TTACAATAAA CCAATTTTAT AATCTTTAAA TTAAA 226
```

SEQ ID NO:2162

LENGTH:224

TYPE:nucleic acid

00837

TOPOLOGY:linear

CLONE:HUMGS02471

SEQUENCE DESCRIPTION:

GATCTGCCTT GCTCACTATT TGCCTATTGG CATATATGAT TACTTTGCTA AAAGACATTT 60
TGGCCAAGAC AAGCCCATNT CCAGAGCTCT AAGAATGCCT AACTACAAGA AAAAGGCCAC 120
CTAGGCAATG GAAGCCCTCA AAGAAGTCGG AATGTCATAG TCTTGAAATG AAAGGGAAAC 180
TGGGAAACTG GGTTCCTCAT TAAAGTTGTT TCCCACTCTN TAAA 224

SEQ ID NO:2163

LENGTH:221

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02472

SEQUENCE DESCRIPTION:

GATCTAATTT GATAACAAC ATGGCTTGTG TGAAACTGA GCAGGTGTTT GTTTACCCAT 60
AGTGTCTGT GTAGTTATTG CTTANTCTGC AGAAAATAAT GACTTAGATG AGATGTCTGA 120
CTTGCTTTCA CTTATTAAAC ATGTTACCA TGGGATGATG TCTGTAACAT CAGATATTGT 180
TCAACTAGAC TAGGATTAA TAAAAATTGT GAAAGCTTAA A 221

SEQ ID NO:2164

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02473

SEQUENCE DESCRIPTION:

GATCTTAATT TACAGTTCCA TGGGATTAAA ACAAGTTTGC ATTTATGTAA TTTGCATTAC 60
TTTAAAAATT ACAACAACAT AATCTCTGAA ACTTACTTCA ATCAATTCAC ATCCCTACAA 120
CTGTTAAGAT TTATTTTGTG ATTAGNATCT TATAGTGGGT ATTCTTTTNA GTGCTGATAT 180
TTCTATTCAT TAAAATCCTG TGNACACAAA 210

SEQ ID NO:2165

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02474

SEQUENCE DESCRIPTION:

GATCCTGCAT TAAATTTTAA TTTGTGAAAA TTTGAAAATT ATGAGCTATA ACTTATAAAG 60
TTTGCCTTCT TATGNCTAAA ATCTTTTAAA GGATTATTTG CATTTATGTA AAAGTGGAAA 120
TGAAGTTATA TATGAGTGCA AAGAAATTGA CTTCTGCTCA AATATGTGTT GATACCCTAC 180
AGTAAATTGA ATTAAATTTT TATCCCAA 209

SEQ ID NO:2166

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

00838

CLONE:HUMGS02475

SEQUENCE DESCRIPTION:

GATCAGTCAA TTTTCGTCG TCCGTAACCA GCGGGCCCCCT GGTCAAGTNC TGGCTCTGCT 60
GTCCTTGCCCT TCCATTTCCC CTCTGCACCC AGAACAGTGG TGGCAACATT CATTGCCAAG 120
GGCCCAAAGA AAGAGCTACC TGGACCTTTT GTTTTCTGTT TGACAACATG TTTAATAAAT 180
AAAAATGTCT TGATATCAGT AAA 203

SEQ ID NO:2167

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02476

SEQUENCE DESCRIPTION:

GATCTGGACT TCGAACTTT CCTCATGGAT TCTGAATAAA AGAAACACTC TACACCTCTT 60
AAATCAAGGT CATGTAGATA ATGACTTTGT TATAAATGCT ACAGCTGTGA GAGCTTGTTT 120
CTGATTTTCAT TGTTGCTTC TGTAATTCTG AAAAACTTA AACTGGTAGA ACTTGAATA 180
AATAATTNGT TTTAATTAAA 200

SEQ ID NO:2168

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02477

SEQUENCE DESCRIPTION:

GATCTTAAGT GTCTCCTTGC TCTGGTAAAA GATAGATTTG TAGCTCACTT GATGATGGTG 60
CTGGTGAATT GCTCTGCTCT GTCTGAGATT TTAAAAATC AGCTTAATGA GAGTAATCTG 120
CAGACAATTG ATAATAACAT TTTGAAAATT GGAAAGATGG TATACTGTTT TTAGAGGAAT 180
AAACGTATTT GTGGTTTAAA 200

SEQ ID NO:2169

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02478

SEQUENCE DESCRIPTION:

GATCCAAATC CCAGCTCTAC TGTCTCGTCC GAATTAGCCT TGGGAAAATC ATTTATATGC 60
TAAATAATTT ACCTTTTTAT CTAGGAGATG AAAAGAGGAT AATGTTTCCT TCCATAAAGA 120
AAGTTCTTGT AAGAATCAAA AGAAATGGTG AGCTTTAAGT GGTGTGTAAC CCATAAAACA 180
CATCATAAAA GTTCAAA 197

SEQ ID NO:2170

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02479

SEQUENCE DESCRIPTION:

GATCCATGNC ATCTCTCTCT TGCCTGAGGG GAAAGAGAGA TGGGCCAGGC AGAGAACAGA 60
 ACTGGAGGCA GTCCATCTAG GGAANNNNAC TGTGAGGCCA TACTTGTGAA ACGTCTGGAC 120
 TGCTATTCTA GAGCTTTTAT TTGNGTGTGT TCGTTGCACA NCTTGTTTAA AATGTTTAAT 180
 AAAAGCTTTA TAAACTTTAA A 201

SEQ ID NO:2171

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02480

SEQUENCE DESCRIPTION:

GATCCCCCAA GTACAGGCGC TAATNTTGT GATAATTTGT AATNGTGACT TGTACTCCCC 60
 GGCTGGCAGC GTAGTGGGGC TGCCAGGCC CAGCTTTGTT CCCTGGTCCC CCTGAAGCCT 120
 GCAAACGTTG TCATTGGCAG GGAAGGGTGG GGGGCAGCTG CGGTGGGGNG CTATAAAANT 180
 GACAATTAA CGNGACANTN GTNTTTTATT TCCTNAAA 218

SEQ ID NO:2172

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02481

SEQUENCE DESCRIPTION:

GATCCTTGCA GGGAGCTTGG AACCTTAGTG CACCTACTTC AGTTCAGAAC ACTTAGCACC 60
 CCACTGACTC CACTGACAAT TGAATAAAG ATGCAGGTGC TCGTATCTCG ACATTCATTC 120
 CCACCCCNCT CTTATTTAAA TAGCTACCAA AGTACTTCTT TTTTAATAAA AAAATAAAGA 180
 TTTTATTAG GTAAA 195

SEQ ID NO:2173

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02482

SEQUENCE DESCRIPTION:

GATCCGGCAA CATCAACCCG AGTCATTCGT TCTGTGGAGG GACAAGTGGA CTCAGGGCAG 60
 CGCAGGCTGA CCACAGCACA GCCAACACGC ACCTGCCTCA GGA CTGCGAC GAAACCGGTG 120
 GGGCTGGTTC TGTAAATTGTG TGTGATGTGA AGCCAATTCA GACAGGCAAA TAAAAGTGAC 180
 CTTTACACT GAAA 194

SEQ ID NO:2174

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02483

SEQUENCE DESCRIPTION:

GATCAAATGG AAAGGAGAGG AAAGAACTCA GTGCTGCCTA TTAGTAGTTA ATTCTGTCAC 60
TCACCACTAC ATCACTTGAG ACAAATCTAT GCCACTCAGA ATCTCCTTCT TTCCTGGACT 120
TAACTCTAAT TCTAGAGTCT CTGTTACTGC TTGGGCTATA CCTGGGCATA CTAATAAAGT 180
ATGGTATTGA AA 192

SEQ ID NO:2175

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02484

SEQUENCE DESCRIPTION:

GATCAGAACT GTTACCAAAA AACAACTGTC AGTTTTATTG AGATGGGAAA AATGTAAACT 60
CGANNNTTAT TACTTAAGAC TTTATGGGAG AGATTAGACA CTGGAGGTTT TTAACAGAAC 120
GTGTATTTAT TAATGTTCAA AACACTGGAA TTACAAATGA GAAGAGTCTA CAATAAATTA 180
AGATTTTTGA AA 192

SEQ ID NO:2176

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02486

SEQUENCE DESCRIPTION:

GATCGTCTTG GAAGGGAGTG GTTTTCAGAG ACATTTTCAGA AAGTGAAGGA GAAACTCAAG 60
ATTGACTCAT GAGGACCTGA AGGGTGACAT CCCAGGAGGG GCCTCTGAAA TTTCCCACAC 120
CCCAGCGCCT GTNCTGAGGA CTCCCTCCAT GTGGCCCCAG GTGCCACCAA TAAAAATCCT 180
ACAGAAA 187

SEQ ID NO:2177

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02487

SEQUENCE DESCRIPTION:

GATCATTGAA ATGCTGAAAA TTTTAACAGT CTTCTTAAAA GTATTGAGGG GGCAAAAATT 60
ACCAATTATG GTATACAAAA ATAAGCCTAT AAATGTNTTT CACATTGCTA ACTTGAGTTT 120
CAGTTGATTC AGTTTGTAAT AACTAGTAAT GAGCTTCTGT TTACAATAAA AATNCTGTAA 180
ATTGAAA 187

SEQ ID NO:2178

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02488

SEQUENCE DESCRIPTION:

GATCAGTTGC TTATAGATAA TGTTCAATGA CCTCAAGACA TATATTTTGT AGAAATTATC 60

ATTTTAAAAA ATTTGGTCTA TACTGATTGT TTTCCTGAT TCCAATATTA TTACTTATAA 120
CACTGACCTC TGGAAAATAT TTTGTNCACA AGAAATAATA AAGTATAATG ATTTGTNGCA 180
NNNAAA 186

SEQ ID NO:2179

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02489

SEQUENCE DESCRIPTION:

GATCCACAAG GCCTGAGGAG CAGTGTGGGG GGACAGACAG GAGGTGGATT TGGAGACCGA 60
AGACTGGGAT GCCTGTCTTG AGTAGACTTG GACCCAAAAA ATCATCTCAC CTTGAGCCCA 120
CCCCACCNC NTTGTCTAAT CTGTAGAAGC TAATAAATAA TCATCCNTNC TTGCCTAAA 179

SEQ ID NO:2180

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02490

SEQUENCE DESCRIPTION:

GATCCAATGG AGCCTGGNGA GGTGTGCCCA GAAAGCTTGT CTGTAGCGGG TTTNTGAGA 60
GTNAACACTT TCCACTTTTT GACACCTTAT CCTGATGTAT GGTCCAGGA TTGGGATTTT 120
AATTTTCCAA ATGTAGCTTG AAATTTCAAT AAACCTTGCT CTGTTTTTCT AAAAATAAA 179

SEQ ID NO:2181

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02491

SEQUENCE DESCRIPTION:

GATCTGTCCA CTCCTGGTCA TTGGTGGATG TTAAACCCAT ATTCCTTTCA ACTGCTGCCT 60
GCTAGGGAAA ACTGCTCCTC ATTATCATCA CTATTATTGC TCACCACTGT ATCCCCTCTA 120
CTGGGCAAGT GCTTGTCAAG TTCTAGTTGT TCAATAAATT TGTTAATAAT GCTGAAA 177

SEQ ID NO:2182

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02493

SEQUENCE DESCRIPTION:

GATCAAAAAA CCACAGGGCT TTTGGGCACT GCCTCCTTGG GAAGTTAGTG GCCACAGAAG 60
AGAGATGAAA CCTGTAAGAA GTCTGGAGTC TTTTGGAATC TCAGCCATTT CCCCAGGTTG 120
TTACTTTCTT AGTATGTACA GTCTTCTCAG GATGAGCAGT AAAACCTTTG AACAAA 176

SEQ ID NO:2183

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02494

SEQUENCE DESCRIPTION:

GATCCTAAAC TCTCTAGCTT AAGTGTAAT GAAGTACAGT AGTTCCCTA CTGAACCCTA 60
CCTCTTGTGT CCCTGGAACC TTCTAGAACA CCTGCCTTCT ACCCTCTGGT TGGGAGATGC 120
AGCCACCACA TCCCTTCATA TCATACTGTT TTGAATAAAT TTCAAATCC TAAA 175

SEQ ID NO:2184

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02495

SEQUENCE DESCRIPTION:

GATCCGGAGG GCCCAGGAGA ACCGGAGCGT GCTTCAGGGT GCGGCAGAA CAGGAGCTGC 60
TCAGCCAAGA ACTGTGGCGG CGGCTGCTGC CAGGATGCCG AAGATACCCC ACTAGCACCC 120
CTNAGGGGGT CATGTGGTCA ATAAAAGTCC TTAGCTGCTG CCTAAA 166

SEQ ID NO:2185

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02496

SEQUENCE DESCRIPTION:

GATCAAAATC AAGAAATCCG GGCATCACAG AGAAGTTGGG TTAGGACAG CAGGTGCTGT 60
TCCGAGACTC AGTCCTAAAG GGTTTTTTTT CCCACTAAGC AAGGGGCCCT GACCTCGGGA 120
TGAGATAACA AATTGTAATA AAGTAACTTC TCTTTTCTTC TAAA 164

SEQ ID NO:2186

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02497

SEQUENCE DESCRIPTION:

GATCAGCCCC TAAAATNAG TTCTAGAGCA GGTCTTCTGT TCCAGAAGGG GAGAAGCATA 60
GAGGGCCTGT GAGCTCACGT GTGTTCTTTG TCATAGGGGT GAAAACTAA CTTCAAGTGT 120
CCCTTGTTTG AAATAAATT AGCAGAGTCA CTTTCTATCT TAAA 164

SEQ ID NO:2187

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02498

SEQUENCE DESCRIPTION:

GATCTAATGG TTTTATAAAT NAAAGTTCCC CTGGACAAGT TCTCTTGCCT GCCACCATGT 60
AAGATGTACC TTTGCTACTC ATTCACCTTC TGTCATGATG GTGAGGCCTT CCCAGCAATG 120
TGGAAGTGTG AGTCCATTAA ACCTCTTTCC TTTATAAATT AAA 163

SEQ ID NO:2188

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02499

SEQUENCE DESCRIPTION:

GATCCTAACC AGGTAACCTG GTCCTNTGAA TTGAAGCTTA TCATATACCC AAAGCCTTGA 60
CTAGAAATAC CTAAATAGAA TACCATGGTC ATTGGAAAAA ATAGATAGTN TTNTAAAGTA 120
TTATTTNAAT AAATCCTAAA GTNTGTCTNT CTTCTCCTCA AA 162

SEQ ID NO:2189

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02500

SEQUENCE DESCRIPTION:

GATCCTGGCC ATGAATGAAA AGGATAAGAA GAAAGAGAAG AAATGAAGTG ACCATCCAGC 60
CTTTCCCAAT NAGACTTCCT CTCCTTCCAC CCCTCATTTT CTTTTTGCAC ACATTACAGG 120
TGGTGTGTTC TGTGATAATG AAAAGCATCA GAAA 154

SEQ ID NO:2190

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02501

SEQUENCE DESCRIPTION:

GATCAAAGCC AGCNACCCCC ACCCCAACAC ACTCGGTGTC CCANTCATAC TAGGGCCTGT 60
GTAAATCCCA GCCTGGCCAT ACCCTCAACC TCAGTGGGCT GGAAATNACA GTGGGCCCTA 120
TAGCAGTGGC AGAATAAACT CAGNTGTGTT CAAA 154

SEQ ID NO:2191

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02502

SEQUENCE DESCRIPTION:

GATCGCCCCA CTGCAATCCA GCCTGGGAGA CATAATTCAA ATCTATTTTG GTCTTATATC 60
TTCTTATGTT TGTGTTATTT CATGTGTGCC AGTTTCTCTT TTTTTCACAA CAATTTATCA 120
ATTTGTGGCA ATAAAAATNA TTTACCTTTT AAA 153

SEQ ID NO:2192

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02503

SEQUENCE DESCRIPTION:

GATCATGGTG ATTTTACTGC TGCTTGTGGC TATCGTGGTT GTTGCAGTCT GGCCGACCAC 60
CAGCAGTNAC ACCTGCCAAT NACAGATGCA AGCCCAACAC CCTTTTGGTA CGCAAAACCT 120
GCTCTCAATA AATTCCCCCA AAGCTCTGAA A 151

SEQ ID NO:2193

LENGTH:371

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02504

SEQUENCE DESCRIPTION:

GATCCCAGGA ACCTTCCTNC TCCAGGGCAG CACAGGACTC AGCCATGTNT GGACCGGCCC 60
TGCTGAGGCT ACAGTCACTC TGGAAGCTCT GCGCTTCATC AGGNGGCAGG ACTGTGGCGG 120
GAGGGGTCCT TGAAGATGGG TGTGGGGAGC AGTGGGTCAG GAAGTGGGAG CCAGAGGTTT 180
GACTCACTTT GCTTTATTTT TCAGGCTACA ATACAGGTCA GAGACAATGG CTTATAAAGG 240
TTTAGTGTGG TCTCAGGATG TGACAGGCAG TCCAGCCTGA CCTTTCTGCA CACTCCAGAC 300
AAACTTCCCA GACAAGCTCC TTTGTGCCTC TACGTGGAGA GGGTGTGGGA AAGTTATCAC 360
ATTTAAAGGT N 371

SEQ ID NO:2194

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02505

SEQUENCE DESCRIPTION:

GATCAAGAAA GAGATGGAGG AGGAGGACTG AGCCCAGAAT TCACTAGGTT CGAATCCAGA 60
NAGCAGTGTG GAAAAAAAAA ACCAAAAANC AACTGNCCAG TTGTTGATAA CCACTAAGAG 120
TCTCTATTAA AATTACTGAT GCAGAAA 147

SEQ ID NO:2195

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02506

SEQUENCE DESCRIPTION:

GATCTGTGTC ATTNCCCATG AGGGGCCGGG GCAGGTGGCT GGGTGGGGGC ACAGGCTGGA 60
GTATTCTNAG TTCTACTGGT TCTACACTGT GAGGTGGCAA TGGGATTTGC TCAGATGCCA 120
CCCAATAAAA TGCCTGTAAC TTAAA 145

SEQ ID NO:2196

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02507

SEQUENCE DESCRIPTION:

GATCGCTACT CTTAAGAATA TACATGTATG TATTCATAGG AACATTTTTT CTCAATATTT 60
GTATGATTTCG CTTACTGTTA TTGTGCTGAG TGAGCTCCTG TGTGCTTCAG AAAAAAATAA 120
ATGAGACTTT GTGTTTACGT TAAA 144

SEQ ID NO:2197

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02508

SEQUENCE DESCRIPTION:

GATCAGCTGG AAGCTCACTA GTCATCTCCT GCCCAATCCC CAGAAACCCT GATTCAGGTC 60
TGCAGGCTCC TCGGGGCTCA CCACGGCTGC TGGCTCCGGT ACCATGTAAN NCCTAGGAAG 120
GTAAAGGNGC AGGCAACCTC AAA 143

SEQ ID NO:2198

LENGTH:141

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02509

SEQUENCE DESCRIPTION:

GATCCAGTGA GATAGAATAC ATGTAAGTNT GGTTTTGTAA TTAAAAAGT GCTATACTAA 60
GGGAAAGAAT TGAGGAATTA ACTGCATACG TTTTGGTGTT GCTTTTCAA TGTTTGAAAA 120
TAAAAAAAT GTTANGANAA A 141

SEQ ID NO:2199

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02510

SEQUENCE DESCRIPTION:

GATCCCTTGT GGCTATGCAG ATACCTACCT CACAGAGTTG TTGTAGAAGA CTGGTGGTTT 60
GGTTCAAACC TTGTGATTAA AGAGTTTGTC AAGCATTTTA TTCTTTTGAA TAAAAGCAAC 120
ATATCNAAAA CATTAAG 137

SEQ ID NO:2200

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02511

SEQUENCE DESCRIPTION:

GATCCCTGTT TAACTCCAAA TTACAGTCGG ACTTGGATAC ATCATTTGTA ACATTGTAGG 60

AAAGAAAAA GTCTTGGTTN TGAAAAACGA TTTGCATTTG GGTAAAATAA AGTGACCATG 120
CTTTTGTCT GTAAA 135

SEQ ID NO:2201

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02512

SEQUENCE DESCRIPTION:

GATCCAGCTC AAGTGCCATC CTGCCAGTGG CCCCCAGACT GTGGGGTTGG GACGCCTGGC 60
CTCTGTGTCC TAGAAGGGAC CCTCCTGTGG TCTTTGTCTT GATTTTNCCT AATAAACGGT 120
GCTATCCCCG CAAA 135

SEQ ID NO:2202

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02513

SEQUENCE DESCRIPTION:

GATCACTACT GCTCTTGGAG TTCCTTCTCC TAAAGCTAAG GCCAGCCTCC ATCACAAATG 60
CCCATAAAAT CTGGCTCGTC TTTGATGAAC AATAAATATT TNTGAACAA ATAAATAACT 120
GCCCTGCATT AAA 133

SEQ ID NO:2203

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02514

SEQUENCE DESCRIPTION:

GATCCTCCCG CTGGCTTCCA GACAGACCTG GGATTTTGGC AGTCATGCCG GGTGATGGTG 60
TTCCTGCGGA GACCCTCAGT TGTCTATTC CTTCTAGCT TCCCTGCAAT AAAATCAAGC 120
TGCTTTTGTT GGAATAAA 138

SEQ ID NO:2204

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02515

SEQUENCE DESCRIPTION:

GATCATTTCA CCTGATGTTT TTAAAGCATC CTAAGTACAG TAGAGTAGAA AACTNATTTT 60
TTTGTTAATT GTACACTGAA TAATGCCTTT AAAAAATCAA AATAAAATTA ACAAATAATG 120
GTGAATGAAA 130

SEQ ID NO:2205

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02516

SEQUENCE DESCRIPTION:

GATCTCCTAT GTTACCAATG TGTATCGTCT CCTTCTCCCT AAAGTGTACT TAATCTTTGC 60
TTTCTTTGCA CAATGTCTTT GGTGCAAGT CATAAGCCTG AGGCAAATAA AATTCCAGTA 120
ATTTCAAGA ATGTGGTGT TGTGCTTTCC TAATAAGAA ATAATTTAGC TTGAAA 176

SEQ ID NO:2206

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02517

SEQUENCE DESCRIPTION:

GATCATGTGA TGAATTTGTA ACATTCACAC AACACCTCAC TTTTNAATCT ATAAAAGAAT 60
TGCACGTATG ANAAACCTAT ATTTNAATAC TGCTGAAACA GACATGAAAT AAAGAATTTA 120
AAGAATGAAA 130

SEQ ID NO:2207

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02518

SEQUENCE DESCRIPTION:

GATCTAGCTT CTGGCTCTGT GTGTTTATTG ACCAGTGGTG TGCCTTGAGA AACCAGAACT 60
CTCTGAATTT CAGTTTTGTC TCTNTNTAAA TGAAGAAGGT TGTAATAAAA AAAATCTCAA 120
GTTTCAAA 128

SEQ ID NO:2208

LENGTH:349

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02519

SEQUENCE DESCRIPTION:

GATCCGTCAT GGNCAACGAG AAGCACAGCA AGAACATCAC CCAGCGCGGC ATACGTCGCC 60
AAGACCTCGA GAAATGCCCC CGAAGAGAAG GCGTCTGTAG GCCCTGGTTA TTGGCTCTCT 120
TCACTTTTGT NGTCTGTGGT TCTGCAATTT TCCAGATTAT TCAAAGTATC AGGATGGGCA 180
NNTGAAGTGA CTGACCTTAA NTGTTTCCAT TCTNCTNTGA ATTAACTTA ACTCATTCCT 240
GATGTTTGAN CCCTGGTTNA ACAATTCAGT AAANATCTGC TAGAATNCTT NCTATCATNT 300
TCATGTGCAT TCAAGNTTCT CATNGCATCC ANGTTCTAGN CAACACAGN 349

SEQ ID NO:2209

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02520

SEQUENCE DESCRIPTION:

GATCACCAGG CAGCGACCTC CGCNCACCCC AGCAGTCGCG AGCCTCGGCC CAGCCANAGG 60
AAGCGNTGCC GNCGGACCTG ACTGACTTCC CAGTGGAAC TGCCTTCTNG GCTGGGACAG 120
CCNTTTN 127

SEQ ID NO:2210

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02521

SEQUENCE DESCRIPTION:

GATCTGGGCC ACTTCCCTCC TTCCAGTCAT GAGTAATCAT CAAGGAGCAA GTTGGAGTGT 60
TTCAGGTGTA TATTTGTAG AACCCAAAAG ATTGGAGCCT TAACAATAAA CATCAGCACT 120
AAGAAA 126

SEQ ID NO:2211

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02522

SEQUENCE DESCRIPTION:

GATCTTTCAT AAAGCAGAAT GGTACGTATC GGATTGTTTT AATGTTATAT ATTGGATTGT 60
ATTCGTTGTT ACAAAACCAA TATTCTATGG AGAATGAAAA AAATAAAGGA CTAAATTAAC 120
TGAAAA 126

SEQ ID NO:2212

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02523

SEQUENCE DESCRIPTION:

GATCTCGCAA AGTTATTCTT CCACCATGGC CAACAACGAA GGACTTTTCT CCCTGGTGGC 60
GAGGAAGCTG AGCAGACCCC TGTGATGCCT GTNACCTCAA TNAAGCAAT TCCTTTGACC 120
TGTCAAA 127

SEQ ID NO:2213

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02524

SEQUENCE DESCRIPTION:

GATCAATGTA CTTTTTATAA ACTTGCCATA GATATCTCAG ATTTGAAACC TCAAGACAGA 60
TTTATTATTC TTAAATGCTG TATGATAATG AAGAAAAATA AAAATTTATT TCTTGCAAAG 120
TTAAA 125

SEQ ID NO:2214
LENGTH:121
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02525
SEQUENCE DESCRIPTION:
GATCAGTTTG GAGAGTAGGG GGCCACTCAT ATTCTGGGCT CCTGGAACCA ATCCCGTGAA 60
AGAATTATTT TTGTGTTTCT AAAACTATGG TTCCAATAA AAGTGACTCT CAGCGAGCAA 120
A 121

SEQ ID NO:2215
LENGTH:124
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02526
SEQUENCE DESCRIPTION:
GATCCCCGCA TGGTGTGGG GGTGCTGGTG TGTCTGGTG CCTGGACTTG AGTCTCACCC 60
TACAGATGAG AGGTGGCTGA GGCACCAGGG CTAAGCAATT AAACCAGTTA AGTCTCCAG 120
GAAA 124

SEQ ID NO:2216
LENGTH:120
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02527
SEQUENCE DESCRIPTION:
GATCAAAAAG GGGTCTGAGG TTGCATCAGG GAGACAACTG TAATGATATA AGCAATAGTT 60
GAGAACCTGA CAGCAAGTAA TAAGACAGGA AGAATAAAAC TAGAAGAAGT CAGAATGAAA 120

SEQ ID NO:2217
LENGTH:120
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02528
SEQUENCE DESCRIPTION:
GATCTGAGTT CTGAGCAAGT CAGACTCCTT CCTTTTGGCC TCCAAAGCCA CAGATGTTGG 60
CCGGCCCACC TGTTTAACTC TGTATTTATT TCCAATAAA GAAGGGCTTC CAAAGGCAAA 120

SEQ ID NO:2218
LENGTH:120
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02529
SEQUENCE DESCRIPTION:

GATCGGAACT GTAAAGCTAT AATCCCCAGA ATTAAAGTTT TTATTATTTT TTATACATTG 60
TAAAACATAG ACGTTTATTT ATGTGATTAA NTTCTATTAA AATTACATG CTAAANTAAA 120

SEQ ID NO:2219

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02531

SEQUENCE DESCRIPTION:

GATCCAGTTT TTCTTGGGAG GTTGTATCTG GTCATAAGGT AAACATTCTA TATATTCTAT 60
GCCTGCTCTA GAATTGAAAG ACTTCAGCAG TATTAAAGCA TTTTTAATC TAAAA 115

SEQ ID NO:2220

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02532

SEQUENCE DESCRIPTION:

GATCTGTATT TGTATATGCT GATGCAATGA TAAAAATCAC TGTAATAGNT TCATTGTGTT 60
GTACTGGATG CAAAGCTAGA AAATATTGCA ATANNTGAGA CCGATGAAAG ACTTCTCTGA 120
AA 122

SEQ ID NO:2221

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02534

SEQUENCE DESCRIPTION:

GATCTTGGGC AAGTTAATCT CTGGGAACTT TGGGTTTCTT ATCCTCAAAA AAGGCGATGG 60
AAGGNCTGGG NCNCGTGATT AAATAAAAGC AACGCAAGAA AAATGCCAAA 110

SEQ ID NO:2222

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02535

SEQUENCE DESCRIPTION:

GATCGATGGT ACTTTTTGAA AATGCTTTAT TGCAAAAAAG TGGCTAGGGT TTTACAAGGN 60
CTATGAAGAA ACATATTAAG GTTAATAAAG CTTTTTATTG AGTGTTAAA 109

SEQ ID NO:2223

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02537

SEQUENCE DESCRIPTION:

GATCCTCCCT TAGAGCATTG GGAAGAGTGT GGCCCTGCCA ACACCTTGAC TTCAAAC TTC 60
TGGCCTCCAT AACTATGAAA TAAATNCTTG TTGTTTAAAG CCAAA 105

SEQ ID NO:2224

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02538

SEQUENCE DESCRIPTION:

GATCTGTCCA CTTCTGGTGT CAAAGATTTT ACTCATCTTC TTAGTACATT CTATGTATTT 60
NATATGTATA ATTTTATACA ATTAAAAATA GATTTTNGTC TAGTGAAA 108

SEQ ID NO:2225

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02540

SEQUENCE DESCRIPTION:

GATCTTATAT CATTACAGTA GCCTTTTTGT AGAATCCATC CTATTTTCCA CATGGATAAT 60
CATGTCATGA AGAATAAAGA CAGTTTTACT TCTTTCCTTA AA 102

SEQ ID NO:2226

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02542

SEQUENCE DESCRIPTION:

GATCCCAGGG GAGGGGTCTC TCCTCCCACC CCAAGNCATC AAGCCCTTCT CCCTGCACTC 60
AATAAACCTT CAATAAATAT TCTCATTGGT CAATCAGAAA 100

SEQ ID NO:2227

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02543

SEQUENCE DESCRIPTION:

GATCTGCTGC TTCCAAGTTG TGTGACCTTG GCTAAGTCAC TTAACCTTTC TGATTGTCAT 60
TTCGCTTTTT AATAAAGTGG GTCTGGTGAA CAAGAAA 97

SEQ ID NO:2228

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02544

SEQUENCE DESCRIPTION:

GATCCCACTG TATGGCTATA CGGTATTTTA TCAGTGCATC CACTGTCGGG TTTTCCCCT 60
TGTGGACTAT TATGAATAGT GGACGCTTGT GTGCAAA 97

SEQ ID NO:2229

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02545

SEQUENCE DESCRIPTION:

GATCAGGTGA GCTGTGTCCA GAAAACCAAC GAGAAGGAGT GGAAGGAGGA ATGAACGTTT 60
CATTCTCGTT AATAAAGGCA TTATCCTAAT TAAA 94

SEQ ID NO:2230

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02546

SEQUENCE DESCRIPTION:

GATCTAATCT ATTCCTGGGG CCATAACTCA TGGGAAAACA GAATTATCCC CTAGGACTCC 60
TTTCTAAGCC CCTAATAAAA TGTCTGAGGG TGTCTCATGA AA 102

SEQ ID NO:2231

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02547

SEQUENCE DESCRIPTION:

GATCATATAT TTGTGGCATA CAGTGTGATG TTTTGACATG NATATAATTT TGTATACAAT 60
GTGGAATGAT TAAACAAGC TAATTAACAT AAA 93

SEQ ID NO:2232

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02548

SEQUENCE DESCRIPTION:

GATCTGCACT TCCTCCCCTT TCACCTACCT GTACACCTAA CCTGGCCTTA GACTGAGCTT 60
TATTTAAGAA TAAAATCGTG GTGGTGGTCA AA 92

SEQ ID NO:2233

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02549

SEQUENCE DESCRIPTION:

GATCAGTGGC TGCTGGGTGG CGGGTACCCT TNCTCAGATG CCTGGCAGGN CTGGNTGGCG 60
ATTCATAAAG ACCTCGTGTT GATTCCCCAA A 91

SEQ ID NO:2234

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02551

SEQUENCE DESCRIPTION:

GATCTAACCC CTTACCCATC TNTCTACTGC TGGACTGTGG AGGGTCACCA GGTGGAAC 60
ATGCTGAAA TAAACAGCT GCAACCAA 89

SEQ ID NO:2235

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02552

SEQUENCE DESCRIPTION:

GATCTTTTTG AGAGAAACAA ATGAGGATTG TAAAGTTTGG GGACTTACCT CTGTAGCATT 60
GTGAAAATAA ACTTTGATTA AGCTGAAA 88

SEQ ID NO:2236

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02553

SEQUENCE DESCRIPTION:

GATCACCTCG GCGTCTGTTT TGTATGCTCT TTACCTATGG ACTAGTTTGT GGACGGCTAA 60
GAAATACAGC CTCAGCATTG ATTTGAAA 88

SEQ ID NO:2237

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02554

SEQUENCE DESCRIPTION:

GATCTTAAGG AGTGTAATTT GCAATCTAAT TTTATCCTCT TACTCTGTGT TGTTAAACCA 60
TATACAATAA ACGGTGTTTA TGGAGAAA 88

SEQ ID NO:2238

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02555

SEQUENCE DESCRIPTION:

GATCTGGCTG TGAGGCCCTC AGGGCAGGGA TACAAAGCGG GGAGAGGGTA CACAATGGGT 60
ATCTAATAAA TACTTAAGAG GTGGAATTTG TGGAAA 96

SEQ ID NO:2239

LENGTH:86

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02556

SEQUENCE DESCRIPTION:

GATCCGGGGA CCAGGGGCTG ACCTCCATTC GTACCCCACT GCTTTGGAGN TGATGGGACT 60
ATCAATAAGA ACTCTGTTCA CGCAAA 86

SEQ ID NO:2240

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02557

SEQUENCE DESCRIPTION:

GATCAAACCA TTNACCTGG AGTTTGGTAC TGGTTTTAAC TTCTCTNAAT CTGTATAAGA 60
AAAATGAAGA CAATTGAACT TTCAAACAAA 90

SEQ ID NO:2241

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02559

SEQUENCE DESCRIPTION:

GATCCAAGTT TTGCGGGGTC TAAAGCTGTG TGTGTTGAGG GGGATACTAA GTTTATGAAA 60
AAGAATAAAA AACACAACCA CGAAA 85

SEQ ID NO:2242

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02560

SEQUENCE DESCRIPTION:

GATCTCGCCA CTNTTCTCCA ACCTGGGCAA TAAAGCAAGA NCCTGTCTTC AAACAAGCAA 60
ATAAAAACTT CCTTATCCTG CAAA 84

SEQ ID NO:2243

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02562

SEQUENCE DESCRIPTION:

GATCCTGTTA GCTTTCTGAA TGTCTGTGG TTGAATGTGT TTTTGCTTAA ATAAAGCTTT 60
TGGTATTTGT TTAAATTAAA 80

SEQ ID NO:2244

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02563

SEQUENCE DESCRIPTION:

GATCCCAACC GTTTGGCACA GCTTTGGCCA CAGCCAGGCC CCTCTGGAAT TGTCTTATT 60
AAACCAGTTT CCCGAGAAA 79

SEQ ID NO:2245

LENGTH:78

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02564

SEQUENCE DESCRIPTION:

GATCCGGGTC AATGCTTCGT TTTCTAAAGG ATGCTGCTGT TGAAGCTTG AATTTTACAA 60
TAAACTTTTT GAAACAAA 78

SEQ ID NO:2246

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02565

SEQUENCE DESCRIPTION:

GATCTTGTTT TTCCATGAAT ACAGCATGTA TAATAAAAAT TTAAAGAAAT AAATGTTATT 60
CTACTTTATT AACAAA 76

SEQ ID NO:2247

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02567

SEQUENCE DESCRIPTION:

GATCTTCTGC CGGGCGTGCC CCAGAGGACA GTGGGTGGAG TGGTCCTACT TATTAAATGT 60
CTCAGCCCCT CAAA 74

SEQ ID NO:2248

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02568

SEQUENCE DESCRIPTION:

GATCTCACCT TTGCAAAGTT GGATAGTCAA TTTGTTTTTA GAGGAAATAA AACACTTATT 60
CTGTGATTTT AAA 73

SEQ ID NO:2249

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02569

SEQUENCE DESCRIPTION:

GATCTGGAGA GAAAAACATT CAAACCATTG CATCATACAA AAAAAAGGCT ATTAAAAATT 60
GGATTATAGC AAA 73

SEQ ID NO:2250

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02570

SEQUENCE DESCRIPTION:

GATCAGAGTA AGAATGTCTT AAGAAGAGGT TTGTAAGGTC TTCATAACAA AGTGGTGTTT 60
GTTATTTACA AA 72

SEQ ID NO:2251

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02571

SEQUENCE DESCRIPTION:

GATCAAATCT GTACAGTTTC TATTGTTCCA GATTTTTTTA AGTTTGTATT AAAAGCATGA 60
TACATAATAG TAAA 74

SEQ ID NO:2252

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02572

SEQUENCE DESCRIPTION:

GATCTTTTCA GTGTTTTTTC ACTTTAGCTA TGTGGATTAG CTAGAATGCA CACCAAAAAA 60
ATACTTGAGC N 71

SEQ ID NO:2253

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02573

SEQUENCE DESCRIPTION:

GATCCAGGAG GGAGCCACCC CCAAGGACCC TGCCAGCCAC AGACCTCCAA TAAAGACAGC 60
ATGGAAACAA A 71

SEQ ID NO:2254

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02574

SEQUENCE DESCRIPTION:

GATCTGATGT GAATTCAGAT TTCCAATCTT CTCCTAGCCA ACCATTTTCC TGGAATNAAA 60
AATTCAGTAA A 71

SEQ ID NO:2255

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02575

SEQUENCE DESCRIPTION:

GATCCAGAAG TTCTAAATCC AGGATTTTAA TTAGTAACTC AAATAAAATG CCACACATTT 60
TCATACAAA 69

SEQ ID NO:2256

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02576

SEQUENCE DESCRIPTION:

GATCATAGTA GTGCCGCTGT TGAGTGATAA AGCAACTTGT CATTAAAGAT GTGTGTNCAG 60
ACATGGAAA 69

SEQ ID NO:2257

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02577

SEQUENCE DESCRIPTION:

GATCCCAGCC CAAATNNGCC CATTACACA ATCAGGAGCN AAATAAATTA CTGTTGTCTT 60
AACACTAAA 69

SEQ ID NO:2258

LENGTH:68

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02578

SEQUENCE DESCRIPTION:

GATCTTCAGC TGTTTGCCCG TNCTTATTAC ATAAACTGAA AACAGGATAA AAACGGAGTG 60
CAATGAAA 68

SEQ ID NO:2259

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02580

SEQUENCE DESCRIPTION:

GATCTGTCAA AGATATGAAC ATGAAAGAAC AGCTTATTTT AATAAACCCA CTTTACATAC 60
AAA 63

SEQ ID NO:2260

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02581

SEQUENCE DESCRIPTION:

GATCAAAAGT AAATGTTCTC TTTGCCATTT TAGATGGAAA AATAAAAAAA ATTAAAAAGT 60
AAA 63

SEQ ID NO:2261

LENGTH:86

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02582

SEQUENCE DESCRIPTION:

GATCTACATG AAGGAAGTGT AGATGATGTA TTTTTTTCAT CTTTTTGTG AACTGATTG 60
CAATAAAAAT GATACTGATG GTGAAA 86

SEQ ID NO:2262

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02583

SEQUENCE DESCRIPTION:

GATCCCTTTT TTATTTTGTG GTTTTTTAAT ATAGTATAAA AATCCTTTTA AAAAAACAAA 60

SEQ ID NO:2263

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02585

SEQUENCE DESCRIPTION:

GATCAAAACA GGATTCCATT GACCTAATTA TATTAAGCTA ATAACTAAT TTTTGAATT 60
TTTGAAA 67

SEQ ID NO:2264

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02586

SEQUENCE DESCRIPTION:

GATCAATATT TATTGACTTG TAGTAACTGC CACCAATAAA GCAGTCTTTA CCATGAAA 58

SEQ ID NO:2265

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02588

SEQUENCE DESCRIPTION:

GATCAATAGA CTGTACTTAT TTTCCAATAA AATTTTCAAA CTTGTACTG TTAAA 55

SEQ ID NO:2266

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02589

SEQUENCE DESCRIPTION:

GATCATTCTC AGTATCCACT GTCTATGTAC AATAAAGGAT GTTTATAAGC AAA 53

SEQ ID NO:2267

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02590

SEQUENCE DESCRIPTION:

GATCCATTTN TTTGTGAAT GTGCTAAATA AAAAGTGTTA TNAATTGCTG AAA 53

SEQ ID NO:2268

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02591

SEQUENCE DESCRIPTION:

GATCCTGCAT CCCACTCCCT GGGAGCCAAT AAAGTGCATT TTCACAGGCA AA 52

SEQ ID NO:2269

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02592

SEQUENCE DESCRIPTION:

GATCACAAAG TCAAAAACCC ATAAGAAAAA TTGAAAAAGC TACAAGCAAA

50

SEQ ID NO:2270

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02593

SEQUENCE DESCRIPTION:

GATCATATTT TCTATTAAAG TGGCTAACAC CTGGCTACTC TTACTGTAAA

50

SEQ ID NO:2271

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02612

SEQUENCE DESCRIPTION:

GATCTGTAAA TAAATCAGT GCACTGTGAA TCACACCCAG CCCCTTTCCC TGCTGTGTGG 60
ATTAGGTGTC AAGACACCTA GTTCTTTCTG GGGCCACCCG GCTGGCCTCA CTGCTTATAT 120
TAAGGCTCCT CCCAACTCTC ATTTTCCTTT GGAAAACAAG ACTTTTTTCC CCATGGTTAC 180
CGCTGAGATA CTGGGGCTGT AGTAGTATAA AAGCTCACAG TTCCTTCTGA GTGCTGAAAA 240
GAGTGCATGA GTTGCTTCGA AATAAAAGGG TCAAGCATTC CTACCTGAAA 290

SEQ ID NO:2272

LENGTH:556

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02627

SEQUENCE DESCRIPTION:

GATCTGTGCT TCCNACTCAC ATGTNAGGCC ACGCCATCCT CTTGCTGAAN CCCTATTGAT 60
GCTTTCTAAC AGGTTCTCGT GTCTCTCCCT GACCAGGCC TCTTACAGAC TGCAGAATTA 120
CCATCCACAG TGTACATTGG ATGAGAATGT GTCACCACCA TGCTTAGAAC CACTCCTATC 180
ACTGACAGGT CAATATCTGA GTCCTTGGC ACAACACACA TGTCAGGGA GTGGCCAGTA 240
ATTAGTTGTG CCTGGAGTAT TGAGAGCATC AGTGGCCGGG AACATCAGGC AAGATGTGAT 300
GTTTTAAAGA GCCTTGAATG CCATGCTAAG GACTTNGAAC TGCATTGCAC AGCCCATGGG 360
GAGCTCTGGA AGGTTTAAAA GCAGNGAAGA NCCTTGCCCT TGTCTAAATT CTGTAAGTCT 420
CAAGCACTTC TGCTTTCCTT CATAGNACTT TGTAATTAT TTCAATTGGC TTGGTTNATT 480
TTTTNCNNA TTTTCCCCTT AAATTTCAAN GTTTTTGGGC GGGATTAAAT NNTGGCTTTT 540
TTGNTCNCNT TTAAAA 556

SEQ ID NO:2273

LENGTH:527

00861

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02628

SEQUENCE DESCRIPTION:

GATCTGAACA TCTGGCCCAA GTGAAGCATG GCATATAGTG CCCTTGGAAG AAAATTAGGC 60
CTCAAATGAC AGTAGCATTG AAGTGTTTGC TGCAGAGTTG AGGGAAACCC CCAGCCACCC 120
TCCCGGAATC CGAGATAGGG TGGCACATCT GTCCTGACAG ACGAGGAGTG TAACTNAACC 180
AGGAATATTT CCTCCATTCC TGCTCTCCCA CTGCACACAG GGTGGTGGCA CATTATCCCT 240
CTGGGGGGTG GGGACGCCTG TTGTTTTGGC TCAATTTGGG TTTGTTGGTC ACATGGAGCT 300
CTTCCATTTT GTTTAGCTGA ATAATGAGTT GTTCCTAGAG GAGACAGCCT GTCTCTCCTT 360
GTTNNCCNCA AAGCCCATGN CCTGNCGTGG TGGANCTGGG GCTTTTGGNT GGGGAGGGGN 420
CCCAACAATG GATNTTNTN CCTTNCTCCG AATTCCAACG GANTNNAATG TNCAAAGGCC 480
CTTTNGAAAC TTGGNGGGAA ANTAAATTNC TNTNCCCTNG NNGTGGN 527

SEQ ID NO:2274

LENGTH:458

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02629

SEQUENCE DESCRIPTION:

GATCAGCAGC CAATATGGGT TTGTTTGGTT TTTTAAATTC TAAAAACAN CCTNTAGAGG 60
AATAGAAACA AATTTTTATG AGCATAACCC TATATAAAGA CAAAATGAAT TTCTGACCTT 120
ACCATATATA CCATTAGGCC TTGCCATTGC TTTAATGTAG ACTCATAGTT GAANTTAGTG 180
CAGAAAGANC TCAGATGTAC TAGATTTTCA TTGTTTATTG ATATGCTCAG TATGCTGCCA 240
CATAAGATGA ATTTAATNNN NNNCAGCCAA AGCAATATAC TCTTACATGA TTTCTAGGCC 300
CCATGACCCA GTGTCTAGAG ACATTAATTC TAACCAGTTG TTTTGCTTNT AAATGAGTGA 360
TTTCCATTTT GGGGAACAGG TTTCAAATGG ANTATATNTA CATGGGTAAA ATTCCCCTGT 420
GCTAGTGTAG GNCTTTCCTN GGGGAATGTT TTATGGGN 458

SEQ ID NO:2275

LENGTH:452

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02630

SEQUENCE DESCRIPTION:

GATCGACTAC AAGCCAGCCC CTANGCACCT GCTGCTACAT CATGAAGNTA NCTCCAGAGA 60
GCATCCCCAG TCTTGAGGNT CTCAATAGAA AAGTCCACAA CTTCCAGGCC AAGCCCGCAG 120
TGCCTACGTC TAAGCTGGGC CAGGCAGAGG GNCGAGATGC AGGCTCAGCA CCCTCCGGAG 180
GGGACCCGGC CTTCTGCGGN NTNGCCGTNA NCACCCTGTG TGGCGAGGTG CCGCTCTACT 240
ACATCTAGGA CGNCTCCGGT GAGCAGGGTC AGTGGAAGCC CCAACGGGAA AGGAAACGCC 300
CCGGGCAAAG GGTCTTTTGC AGCTTTTGA GACGNGCAAG AAGCTGCTTT CTTCCACAA 360
CCGNAGGACC AAAACCCTTG GAGAAANTGN GNAGNTTGGN GGAGATGGAT TTGGGAGTTT 420
GGCAANAGGG TTGGACCCNA NGNGGGCCCG GN 452

SEQ ID NO:2276

LENGTH:451

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02631

SEQUENCE DESCRIPTION:

GATCTTGTTT ACTTTTGGAC ATCAAGCCCA TCACTGCCAG CCAGTNAAGA AGGATTCCAG 60
CCTATGCCCT CAATCACAAT AAGACCACCA GATGACCAAC ATCTTCCTAC TGCAAATACT 120
TGCATTTCTC GACTTTACGT CCCACTCTAT TCCTCTAAAC AGATTCTCAA ACAGAAATTG 180
TTACTCGCCA TTAAGACCAA GAATNTTGGC NNGGTGTAGA GTATAAAAAG TGTGTATTGC 240
TGTGTAATAT TACTAGCAAA TTTTGTAGAT TTTTNTCCAT TTGTCTATAA AAGTTTATGG 300
AAGTTAATGC TGTCATACCC CCCTGGTGGT ACCTTAAAGA GATAAANTGC AGACATTCCT 360
TGCTGAGTTT ATAGCTTAAA AGGCCTAAGG GAGCACTAGC AANCATTTTG GGCTATATTT 420
GGGTTTGCTA GGTACCAAC TTTCTGGGG N 451

SEQ ID NO:2277

LENGTH:446

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02632

SEQUENCE DESCRIPTION:

GATCCAGCCA GGCATCTCGG CGCTTTGGCA CCATGAGTTC TATGTCTGGG GCCGACGACA 60
CTGTGTACAT GGAGTACCAC TCATCGCGGA NAAGGCGCCC AGCAAACATG TACACCCGCT 120
CTTCAAGCGC TTAGGAAAT NATNCTTAGG CAGGGTACTT CGTTCAAGAC CGGCGCTTGG 180
CACCCTTGTT GAAAGGGNT TTTAGCATA ACATTTTCTT TCCACCTCTT TGACCTTCCC 240
TCCAGCGTTG GCCAAATTGT GCTGAGGAAG ATGCATCAAG NGNTTGGCTG TGCCTTCATA 300
GGTCATCTAG GGTTTTATAA AGGAGGAGGA GACAATATTT NTTCAAACCT TTTTGGGAGT 360
GGGGTCATTT TCTGTATATA AANAATGTTA ATATTTAAGG TG TAGTTTAT GTTACCGTTC 420
TGAATAAACA GATTNGGCCA TTNA 446

SEQ ID NO:2278

LENGTH:425

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02633

SEQUENCE DESCRIPTION:

GATCCACACC TGACCCTGTT GGGTCGAGTT AGGNTGGGCC TTGGTCTGCA CTGTAGCACC 60
TNTGTTCTTT GAGTTCACAT CATGAATGTG GTGACTTNCC AGNTACCATA TCAGGCTTAA 120
CCTAGCACAT CCTATTTCTT TNCTTCTATG ATATCCAAAT TGGACTGACC TCACTTCAA 180
GTTGCTGTCC CATTTTGTCA CCCTATCTTA TCTCGGGGAA ATTGCAGACT GATGGCCAGA 240
CCAACTCTGT TGAAATTCTT GCATAGAGCA AACCTGTGCT CATTTTAAAG TGGCATGGGA 300
GAGGCCCCCA GCCTAGTAAA GCCTAGTCTG TGTCTTCACA GTGCTGGTAG NATGNGTTTT 360
GTGTGTATAA ATATATGATA TAGGATTGAT AATATGTTNN CTAACGGCCA TATTATTGAA 420
GGGCN 425

SEQ ID NO:2279

LENGTH:414

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02634

SEQUENCE DESCRIPTION:

GATCTGCCTT AACTCCAAC TACATGTTTT GGTCAC TATT ACAAAC TGT C ATCCCAGAA T 60
GATGCTGCAG AGGCTAGGGC TAGGACACAG ACCAGTGT T CCATGTGGGA ATTCCCTCCC 120
AGTATTTCTT AGGAANNNTA TGTTTTTTGA ATCCATAATC CCTAGAAAA TCAGTTGAGG 180
AAATGAGAAG TATTGTAAT ATNCTGTGAA TAGTAACACT TACCATTATG GAGACATCAC 240
TAGTTTGAAA GANTCCAAC TCATCAAATN TTAACGTACC GAGTTGAAGG NTACAAGANC 300
TGAGACAGGA GCATAGCAGA GGAGAAACGG TCACCATCTC ATTAGCCCTA TTTTTTGNT 360
TGNTGTGATG CCATTACATC TGNAATAATC TGGGCCATNT CAGCTGCTAA TGGN 414

SEQ ID NO:2280

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02635

SEQUENCE DESCRIPTION:

GATCTCACCT TCCTTCGAAT TCGCTCCAAG AAAAATGAAA TTATGGTTGC ACCAGATAAA 60
GACTATTTCC TGATTGTAAT TCAGAATCCA ACCGAATAAG CCACTCTCTT GGCTCCCTGT 120
GTCATTCCTT AATTTAATGC CCCCCAAGAA TGTTAATGTC ANNNNNGTCA GTGGACTAGC 180
ACATGGCAGT CGCTTGGAAC CCACTCACAC CAATCCAGTG ACCGTGTGTG GGCTGGNGGC 240
TCTNTNTCCC NCNCCAACGG AACCCNGTG TGCACCAACC TTTNNCNCAG AGN 293

SEQ ID NO:2281

LENGTH:400

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02637

SEQUENCE DESCRIPTION:

GATCTGGCAG GGCACCACAG CGCCCCCTAC TGAACCATCA GCATGTCAGT GGCATTTAAA 60
GCCATGCAGC TGGAGGGGCC ACTGAGATTG TCTCTGAGTA TTAGTGAGAA GCAACAGAAA 120
AGAGCCATGG ATGGAGCCCT TGGGCTCTCT GGGAAATGGG AAATCAGCCA AAGGACTGAG 180
AAGGAGTTAC CTTAAGGTCA GAGAAAACCA AGAGAGTGTG GTGTTCTGGA AGCTGAGCTT 240
TCTTTATTCA ACCTCATTCC CTTCTCCAAA TAAGCCACTT GTGTAGTTGG GCCCTCCAG 300
GGTTGAAGGC AAGAGGAGAA AGGCACAGCG TTTGGGAAAC AAGACTTTTC CTGCAATAGC 360
CTGGGGAAGG AATAAAANGG ATAGAGGTGT TTGGGGGAAA 400

SEQ ID NO:2282

LENGTH:400

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02638

SEQUENCE DESCRIPTION:

GATCTGTCCA ACGCCTGCAG CGTGGATGTG GAGGCGGACT AATCAACNAG TGCTCTGTTA 60
 TTATTTCTAC CCATCCCTTT TCTCCATGCT AATTTGCTTA GAACTTTAAC ATTGAATGGA 120
 CAGCAAATGT CATGTTCTGT TTAATTATCA CTCCTTGACC ATTATGTTAA TTTCTTTCCC 180
 TAACAAGGTG ACGCATTGTT TTAAGTAACA ATGACCAACT CATCTACTCT TCTTCCAAAT 240
 TGTGTAAATT GAANGGGTAA AATGTGGGAA AACGCTAAAT TTGAATGCTA AATTTGAACA 300
 TTTCACACAA CCAATAATTT TGAAATGCTT CTTNGCAATA TTATNGCGGT TTCGGNACCA 360
 GGTTAAAAAT NNCTTTCATT TTCAGGNCAT TTTGGTCAAA 400

SEQ ID NO:2283
 LENGTH:386
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02639

SEQUENCE DESCRIPTION:

GATCGATAAT ATAATTTATA ATGAAATTGC TTTATCAGCT ATTAATGTTA ACTACATCAT 60
 CTTCATATAG CNTTATAACT CATTTGTGCT ATTCCATTTT CCTCTGTTCC TTTTATTTTC 120
 ACTTCCCTTG TAATGTTAGT CTCTTTGTAC TGATTTCTGA AGAGTTCATT TATGATTAAA 180
 CATGTTAACA TTTTGTCTAG AATTGCAAAT ATGTTTTTCC TCATTCATTT TACTATGGTG 240
 TTTTATTTTT GGGTTATACA GAAGTNGTAT ATTGAAATAT AATCTNGTNC TGTTTTATGA 300
 CTTTGGAGTT TTGTGGTTTT TTNAACCAN GTTTACAGTG GNATCCNTNN ATTNGGTATT 360
 GCCGTCNTAN TNCCNGCAGT TAGGTN 386

SEQ ID NO:2284
 LENGTH:384
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02640

SEQUENCE DESCRIPTION:

GATCTNNTCA AACAGCAAAC GCCCAGAGG NGGTGGTAAT CAGGGTGTGT 60
 GGGTGNTTTT AGGGTTCCTT AGTGTGTGTT CTTTCACCCA GGCGGTGGTG GTCCCAGCCA 120
 GTTTGGTGCT GACGGTGAGA GGAAATNAGA ATCTGTTTGC AAATTGTCCA ACCCACCCCC 180
 TCAACATGAG GGGCTTCCAT TTTNTGTGTT TTGTAAGGGA ACTGTTTCCT TCATGCCGCC 240
 ATGTTCTTGA TATTAGTTCT GATTTCTTTT TAACAAATGT TATCATGATT ANGAAAATTT 300
 CCAGCACTTT AATGGCCAAT TAACTGAGAA TGTAAGAAAA TTGATGCTGT ACAAGGCAAA 360
 TAAAGCTGTT TATTAACCTT GAAA 384

SEQ ID NO:2285
 LENGTH:383
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02641

SEQUENCE DESCRIPTION:

GATCTTTTCT ATAATATCCT ACTACTTTGG TTTTCCTAGC TCCATACCAC ACACCTAAAC 60
 CTGTATTATG AATTACATAT TACAAAGTCA TAAATNTGCC ATATGGATAT ACAGTACATT 120
 CTAGTTGGAA TCGTTTACTC TGCTAGAATT TAGGTGTGAG ATTTTTTGTT TCCCAGGTAT 180

AGCAGGCTTA TGTTTGGTGG CATTAAATTG GTTCTTTAA AATGCTTTGG TGGCACTTTT 240
GTAAACAGAT TGCTTCTAGA TTGTTACAAA CCAAGCCTAA GACACATCTG TGAATACTTA 300
GGATTTGTAG CTTAATCACA TTCTAGACTT GTGAGTTGAA TGACAAAGCA GTTGGACCAA 360
AAANTTTATG GGCATTTAAA GGN 383

SEQ ID NO:2286

LENGTH:424

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02642

SEQUENCE DESCRIPTION:

GATCTAAAAT ACCTGGTGGC TTTTNACAAA AAGCAGATTT TNTTCATGTA CTGTNATGTC 60
TGATGCAATG CATCCTAGAA CAAACTGGCC ATTTGCNAGT TTACTCTAAA GACTAAACAT 120
AGTCTTGGTG TGTGTGGTCT TACTCATCTN CTAGTACCTT TAAGGACAAA TCCTAAGGAC 180
TTGGACACTT GCAATAAAGA AATTTTATTT TANACCCAAG TCTCCCTGGA TTGATAATAT 240
ATACACATTT GTCAGCATTT CCGGTCGTGG TGAGAGGCAG CTGTTTGAGC TCCAATGTGT 300
GCAGCTTTGA ACTAGGGCTG GGGTTGTGGG TGCCTCTTCT GAAAGGTCTA ACCATTATTG 360
GATAACTGGC TTTTTTCTTC CTCTTTGGAA TGTACCATTA NAAATAATTT TTTGAACCAT 420
CAAA 424

SEQ ID NO:2287

LENGTH:378

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02643

SEQUENCE DESCRIPTION:

GATCCGAAGA GGAAGGGCGG TCCGGGCTCC ACACTTAGCT TCGTGGGCAA ACGCAGAGGC 60
GGGAACAAAC TAGCCCTNAA GACGGGAATA GTAGCCAAGA AGCAGAAGNC GGAGGATGAG 120
GTATTAACAA GTAAAGGTGA CGCGTGGGCC AAGTNCNNGG CAGAAGTGAA AAAGTACAAA 180
GCTCACCAGT GCGGTGACGA TGATAAACT CGGCCCTGG TGAAATNACG CCCCTCCCCC 240
ACCTGCCCCAT GGCCTGGGAC TCTCTGCGAT GTACATAACT ATTTAATGCA GCGGCANGTC 300
GACAGCTTTC CCTGAGAGGA CTTAAAAGCA GAAGGAAACC GAGATGCTTC CCGNAAGCCG 360
TGGACGATTC TCCAAGGN 378

SEQ ID NO:2288

LENGTH:370

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02644

SEQUENCE DESCRIPTION:

GATCTTCTTG ACTATGCCAG TTGTAGTACC AGCTTCTGTA TCTGCACTGA ATTCTGNCTC 60
AGTAATATGC CTTTGTTTAA AATTTAAATA TTTTTTCATT TTTTAACT AGAAAATAAT 120
TATAATGAAN NNNNTAAGTA TCTCATTTTA GGATTCTGAT TTACATAGGT ATCACTGTAA 180
CTTGTGCTGT TTGCATAGGT ATACTCTATC TTGTGCTATC TGCATAAAAT ATCCAAGTAA 240
ACACATTGTG ATTTTACATC CGTGCATAGA AAAAAAATC ATCTGAACTC AAATCAATCT 300

GTTGATACTG ACTAGATTGG TGACGTGTTT ATGTGTACCA CTAGTGATAA TGCACGGTCC 360
TGTACAAGCN 370

SEQ ID NO:2289

LENGTH:370

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02645

SEQUENCE DESCRIPTION:

GATCACAGGA ACAGCAGGTG ACAGGCCTAG CTATAGTTAG GAATACACAA GCCGTAAAAAT 60
CGAGTCCTTA CAGCCATACC ACAAGGTACG TCCANNTGGA CTACAAGAAG AGCTTCCTTT 120
AAAGTTCCTA TTTCAGCATA AAGAGGCTGT CCTTTTTTTT NAGGAATAGT TTGGACCTTG 180
TGCTCCTGT GGGAGGCTGA GGA CTGCAAG AGGAGAGCTA GCAGATATGC CTGTTACCC 240
CTCTCTGGTA CTTGTGGCTT GCTAGTATGT TTTNATGATA ATCTCGGGCA TTGTTGCAT 300
TTGTGTTTAT TAATAGGGTT TTTGTTTTTT GTTGTTCCT NTTTTNACAG TAANGGCTGA 360
ATTACATAAA 370

SEQ ID NO:2290

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02646

SEQUENCE DESCRIPTION:

GATCTGAAAG GAATGCTAGA AGTGTTTAGA GAGCTGACAG ATGTCCGACG CTA CTG GGGG 60
CATGCNACAG GGGGAATGGC TCGCTTCAGT GCCCTGCTGC TCAAAGCTCT AGG NAGAAT 120
GCAGTCGGGT AGNCTGTGGG GCTCTAACC CACAGCAACC TCTAGGGATG ACGTCACTAA 180
AAACCGATGA AGCCTCCATA ACATTGGTTC CTTACTGACG CTGAGGAGCA NGGCAATCTT 240
CACACCTTAA CCAATGCTAT TCATGTAGGA TGACCAAGAA ATGAATGTTT CTTACTGAAA 300
TAATACATAT TTTTGGCATC TTTTGGTTAC CCATAGACTA ATTAAANCTA ATCCNNGGNT 360
TTATAAA 367

SEQ ID NO:2291

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02648

SEQUENCE DESCRIPTION:

GATCCTGACA GAGCCCTGAA CAGATTATAT CACTCGGCTA GAGGCACTGC AAAGACGACT 60
TGGA ACTATA CAGTCAGGT CA ACTACTCA ATTT CATGCT GGCATGAGAA GATAATCCTT 120
TGAAACATCA TTAATTGAAG TGATTTTAAA TAGATTTCTT TTTGTAAATC AATGGTTCTT 180
TTGTGCTTTN GNNNNNCGA ATATTCAATG GGACCAATAT GAACACAGCT TATGATTGTA 240
TACAAATCCC TTGCCAGCAC ATGAAANCAA ACTGGANTTT GTATATATAA GCATTGTGTA 300
TGTATTCATG CACAATAATT ATNGANTTAC CTGTATATTT GTGGGAATGC TAATTTAAN 359

SEQ ID NO:2292

LENGTH:357

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02650

SEQUENCE DESCRIPTION:

GATCTGTGGG TCCGGCTGNA GGAGAGTGAC ATAGTCCCGC AACTCCANNT TGCCTGTCCT 60
GGACAGGCAC ATCTCCACTG AACTGCGGCT CCNTCGCCGT GGGCATTCCC ACCACAGCCA 120
GATGGTGGCC AGCAGTGCCT GCCTGTNTCT CTGGACTCCT GTGTTCTGGG TGCTGGTGCT 180
GGCTTTCCAA ACAGAGACAC CGCTCCTGTA ACGACTGGAA GCACCAGGCT AAGNACCTNA 240
CCCCTCGNAC TTNGAAGGAA TGGGCATTNC NGTACTTCAA CATTCTGGGT CTAGGCCTTG 300
TTGGGGCCAA TTCAAGAAGN GGCCTTGTTN TTNGAAAAAA GTGGGCCNNG TTTTNAN 357

SEQ ID NO:2293

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02651

SEQUENCE DESCRIPTION:

GATCCTTCTT TTTGGTTTTG GAAATATAAT CATTGTTAAT GTTTTCCTC CAAATAGAAT 60
ACTGTTTTAT CCATACAAAT CATAACAGCA TCTATCCCAT GCTAGGGTTG GAAACTGATA 120
TTGGTATTAC TTGTGTTTTT CCTTAGTGTG TTTTATTTC CAGTTTCATC TNCTTTTAAA 180
AATGAAAATA TGGTGCCTTC CCTCCCTCCA GGAAGACTGG CAAATATTNC CTTTATTTA 240
CTGCTGCTGT GGAGTGATGA GATATGCACT TACTCTTTA AGATTCAGCA AAAAGCTTTT 300
CACTTCTCAG TATATCCAGA ATACATCATA TCTGGGACTT AGGAAAATTT GCCAN 355

SEQ ID NO:2294

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02652

SEQUENCE DESCRIPTION:

GATCTTTTAC ACCACATCAC AGTGANCACA CTGGGGAGAC GTGCTTTTTT GGNAAACTCA 60
AAGGTGCTAG CTCCCTGATT CAAAGAAATA TTTCTCATGT TTGTTTCATC TAGTTTATAT 120
TTNCATTTAA AATCCTTTAG GTTAAGTTTA AGCTTTTTAA AAGTTAGTTT TGAGAATTGA 180
GACACAATAC TAATACTGTA GGAATTGGTG AGGCTTGACT TAAAACTTTC TTTGTAAGT 240
GATTTCTTTT TGGGTGTATT TTGCTAAGTG AACCTTGTTA AATNTTTNGT TAACTAAATN 300
TTTTCTTAA AATAAAGACT TTTTCACAAA 330

SEQ ID NO:2295

LENGTH:352

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02653

SEQUENCE DESCRIPTION:

GATCCTATGG ATTTTCCCGG CTGGTTGCCA CTACTNTACA ACATTCANAG CCCACATCCA 60

TCTGTGCCAT TAAGCTTTTT TGAGACATGA GAGATGCCTC TTCCCTGCTG TATGACATGC 120
 ATTTGGGAAG TTGGAAGAA ATGACAAAAT CAGGGAGAAA ACATCCAAGC TTCTTACCTG 180
 TAGATAGAAT CAGCCCTCAC TTGGTGCTTA TTACCAGTTA TTCANGGACA ATAACAACAA 240
 CAAAATTAGT AGACATNCAT GANGCACATN TTTAGGNCCA AAGGNTAGCA TCAACTTGTA 300
 TTTNGAAGGG ACTGTAGTTT TCGGCATTTT ATGGCNATTT TTTATNAAAG TN 352

SEQ ID NO:2296

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02654

SEQUENCE DESCRIPTION:

GATCGCAGCC GCTTCGCACG CCGCATCACC CAGGCCCAGG AGGAGCTGAG CCCCTGCCTC 60
 ACCCCTGCTG CCCGGGCCAG AGCCTGGGCA CGCCTCAGGA ACCCACCTTT AGCCCCATC 120
 CCTGCCCTCA CCCAGACCTT GNCTTCCTCC TCTGTCCCTT CGTCCCCAGT NCAGACCACG 180
 CCCTTGAGCC AAGCTGTGGC CACACCTTCC CGCTCGTNTG CTGCTGCAGC GGCTGCCCTG 240
 GACCTCAGTG GGAGGCGTGG CTGAGACCAA CTGGTTTGCC TATAATTTAT TAACTATTTA 300
 TTTTCTCTAA GTGTGGGTTT ATATAAGGAA TAAAGGCTTT TGATTTGTAA A 351

SEQ ID NO:2297

LENGTH:357

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02656

SEQUENCE DESCRIPTION:

GATCCCCGTT CCTGACATCA CAGCAGCCTC CAACACAAGG CTCCAAGACC TAGGCTCATG 60
 GACGAGATGG GAAGGCACAG GGAGAAGGGA TAACCCTACA CCCAGACCCC AGGCTGGACA 120
 TGCTGACTGT CCTNTCGNGT NCAGCCNGTG GCCTTGGCTT TTCTAGCCTA TTTACCTGCA 180
 GGCTGAGCCA CTNTCTTCCC TTTCCCAGC ATCACTCCCC AAGGAAGAGC CAATGTTTTN 240
 CACCNATAAT NCTNTCTGCC GANCCCTAGT TCCCTCTGCT CAGCCAAGGT TTGTTATCAG 300
 GTTTTCAGGG GCCATGGGTT CACATTAAGG ATTTAAAAGG GTAGTAATTT GGGGAAA 357

SEQ ID NO:2298

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02657

SEQUENCE DESCRIPTION:

GATCAAATTT NAGTGGCTTT GGACAGAAAA GAAGGCTCTG GATTTAAGCG GGTGGTCACC 60
 TGTGAGACCA GGTCTACCTT GGGACTGTTA TTAACTGAA TCAGTTATTT CCTTGAAATT 120
 TCACAGTAGT GGGTGGGCCT GTTTTAAGGC TCTGACAGAT ACCACGAAAC ATGANGCNCG 180
 NNGAACTACA AGACCCCCGG GGTCTTTCTG AGTGCAAGGC TGAAATGGAC AAGGGCTCCT 240
 CACGGGGGTG GAGGGAGCCG GAGCCTGCCT TGTGTTTCCT TTTTGAATTG TGACATTTTT 300
 CAAACACATA ATTTAAAGGA CTTATGCTCT GCTGTCTCAG GAAA 344

SEQ ID NO:2299

LENGTH:462

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02658

SEQUENCE DESCRIPTION:

GATCTGGTCC CTGAGAAACA TATTGTGATG AAGTGGAGGT TTAAATCTTG GCCAGAGGGA 60
CACTTTGCCA CCATCACCTT GACCTTCATC GACAAGAACG GAGAGACTNA GCTGTGCATG 120
GANGGTGCGAG GCATCCCTGC TCCTGAGGAA GAGCGGACAC GACAGGGCTG GCAGCGGTAC 180
TACTTTGAGG GCATTAAACA GACCTTTGGC TATGGCGCAC GCTTATTTTA GGGCCAGCGG 240
CAGGGGACTC CAGCCTGCTG GACACTTCAN GTCCAGCTCT CTCCTGACTG GGGCTTNCGA 300
CTCACAGGAT TGCATCGNCC CAGCTGCTAA CTTNGGGCCG GGGGCCCNTC CCTTNCACAA 360
TATACCTTGG GTTNTGTCAT GTTTTCCTNN CTGGGTTGGG GTTCAGAGGG GCAATTCNN 420
CTTTAATGG TGTACATATN NCTANATANN CATAATTTTA AA 462

SEQ ID NO:2300

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02659

SEQUENCE DESCRIPTION:

GATCAACTTC CCACAAACTG AGGAATGAAT TCCACGAGCC TGTCTGAAA ATNTGGACGT 60
AAGACAAACA CGTGCTCGTC CTTAATGGA GTTCACCAGC ACACTTGTTA ACCAGTCCTG 120
TTTGCTTTTCG TCTTTTTTTG TCGTAATAA AGTCAACTGA CCAAGTGACC ATGAAAAGGG 180
GCTGTCTGGG GCTCCTGTTT TTNAGCTGCT GTTCTTCAGC TCCGACCATG TTGCTGTGTG 240
ATTATCTCAA TTGNNTTTAA TTGAGGCAGA AACTGAAGCT CTACCAATGA ACTGTTAGAA 300
ACAAGACACA CTNTNGTATT AAAATTGCTT GCAGTAACAA A 341

SEQ ID NO:2301

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02660

SEQUENCE DESCRIPTION:

GATCNGTGGC AAAACCAAGT GTGGTCTTTC AGCTTCAGTG TGTTAGCATC CCAGCACCTG 60
GGATGGGGTT TGTGGGCAAG TTGATTTTGC CACACTGTAG GGCCCAGGTN NNCCCATTGC 120
CACCGTGAAG CCAAATNCTA GCCCAAGTCT GGTAGAGCAG TCGGGCAGCT AGTTTTCCGG 180
GGAGGATGAT GTGGTGGGAC AGAGGACCTC AGTGGCCTAT TACGGAGCCC TCTTCCCAGA 240
CTAAATTCAT AGCCGAGAGC TCGGGGGGAT GGTAGAGTTA AAATTTAAAA TAATTTTCTA 300
AATTCTGTAT TTGGATATTA GTGTTTAAGT GGTAATTTN 339

SEQ ID NO:2302

LENGTH:441

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02661

SEQUENCE DESCRIPTION:

GATCCAGGGG CTGCCTCTGG CCTCTTAGGG AGCAGAGAGC AGAACTCCGC AGCCCAGCCC 60
AGAGGAGTGT CACCTCCCAC CTTTGGAGAG GAATCCTTCC CTCCCCTGGA CAAAGTTGCT 120
GACAAGCCCC TGAAGTGGCC TCTCCATATT CCAGCTGAGC CTGAATCTGA CTCTTGAGGG 180
TTGGGGCTGC ACTTATTTAT TGCGGGGAGA CAGCTCTCTC TCCCACCTNC TCCCCAGATG 240
GGAGGAGAGC CTGAGGCCCA AGCAGGACCC GGGGGTTCCA GCCCCTAGCT GCTCTGGAGT 300
GGGGGAGGTT GGTGGACCAT GGGAGTNCCT GGTGCTGCCC CTNAAGGTGG GACCCAGGCG 360
TTNTCAAGCT GTACCCTTTT NCCGATGGAA TTTGTGTTTT TGAANATNNG TGTCTNNTAC 420
TANTTNTTTT AAATAAAAAA N 441

SEQ ID NO:2303

LENGTH:336

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02662

SEQUENCE DESCRIPTION:

GATCATGGCA TCCAAGACCA GAGTCTCAGA ACTCATTAAG AAACAGTTTA CTTGGAATGG 60
AGAATACCCA TCTGTAATAC AGGTCCTGTC ATTTCAATTCA TCTCAAATTA TTTTGAATTC 120
TTCCCAAATG GCTGCTGGAT TTAGGTGGTA ATAGGGGCTG TGGGCCATAA ATCTGAAGCC 180
TTGAGGAACC TTGGGTCTGG AGAGCCATGA AGAGGGAAGG AAAAGAGGGC AAGTCCTGAA 240
CCTAACCAAT GACCTGATGG ATTGCTCGAC CAAGNCACAG AAGTGAAGTC TGTGTCTGTG 300
CACTTTCCAC AGACTGGNGT TTTTGGTNCT GAATAN 336

SEQ ID NO:2304

LENGTH:363

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02663

SEQUENCE DESCRIPTION:

GATCAAGTNA CTTCTGCCCC CCTGGACACA ACACCAAAAA GGCTTCTAAA NACGGGTGTN 60
AGTCTTTTNA GCAACCCGGT CCAGTACTGG GAGATACAGC CATCCACCTT CANATGTGTC 120
TACGTGCGCT CTGCCATTCA ACTCGGAAAC TATAAGTAAT TCTNAAGAAA GCCCTCATT 180
TTATAACCTG GCAAAATCTT GTTAATGTCA TTGCTAAAAA ATAAATAAAA GCTAGATACT 240
GGNAACCTAA CTGCAATGTG GATGTTTTAC CCACATGGCT TTATTATGCA TAANGCCAAT 300
ATTTCTGTGTT TTAAGTAATN GCCTTCAATT NNNAAGNTAA TTTTGGCCTG NCCCANAAAT 360
AAA 363

SEQ ID NO:2305

LENGTH:232

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02664

SEQUENCE DESCRIPTION:

GATCAGAGTT CCTCTACTT ACAACCCAGG GTGTGAACAT GTNCTCCATT TTCAAGCTGG 60

AAGAAGTGAG CAGTGTGGA GTGAGGGCTG TAAGGCAGGC CCATTCAGAG CTATGGTGCT 120
TGCTGGTGNC TGCCACCTTC AAGTTCTGGA CCTGGGCATG ACATCCTTN TTTAATGAT 180
GCCATGGCAA CTTAGAGATT GCATTTTAT TAAAGCATTT CCTACCAGCA AA 232

SEQ ID NO:2306

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02665

SEQUENCE DESCRIPTION:

GATCTTAAGT ATAATTACAA GGAAGAAGTG AAGAAGAATA TTCTCTTAGA AGAGAAGGTA 60
AAAAAACTTT CAGAACAATT GGGAGTTGAA TTAAGTAGCC CTGTTGCTGC TTCTGAAGAG 120
TTTGAAGATG AAGAAGAAAG NNCTGTAAAT TTCCCATT ACTAAAGGTC ACCTATAAAC 180
TTTGTTCAT TTAAGTATTT ATTAAGTTTA TAAGTTAAAT ATACTTGAA ATAAGCAGTT 240
CTCCGAAGT TAGTATTTCC TTCTACTAC CTTGGTACCT TTATACTTAG ATTGGAATTC 300
TTAATAAATA GAATTATATG AAATTTTCAN 330

SEQ ID NO:2307

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02666

SEQUENCE DESCRIPTION:

GATCGACTTA CTCAACATGA GACAATTCAT ACTGGTGTGA ACCACANAAA TGCAAAGAAT 60
GTGGTAAGGC CTTTAGTCAT TGCTATCAAC TTAGTCAACA TCAAAGATTT CACCATGGTG 120
AGAGACTCTT AATGTAATGA GAGGGAAAGC CTTTAGCCAT GGAACATTTT TACTGTTGTC 180
ACTATTATNA TGCTATAGTG AAGATTAAAC TAGTTAATAT AGAATATAAA TACTTGGA 240
GGCATCTGGC ACATCGTATT TGCTTACTAA ATACATTATT TTTATGATAA TTGTTAGAAT 300
TACTAAAAAT AAATCTTATA GAAGGAAA 328

SEQ ID NO:2308

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02667

SEQUENCE DESCRIPTION:

GATCTCAGGT ATCAGACCAC TGAGCAACCC ACCGCCAGNC TGCAGGCTTT CAGAGGCCCA 60
CCTGGGCCCA GCGTGGCCTG CCCAGGGTG GGCTCCCAGC GCAACTGCAG GCATCCTCTA 120
GTGGGGCCTC TGGTAACCT AGCAGATGGT GGTGACCCC CTGAGATGAG GAAGCTGGTG 180
ACCTNNGACT GAGCAGCAGC CTATGGGCTC CGGGTCAAGT GCTATTCCA GCGGATGCCC 240
TTCCCCTTG GNCAGTCCCT CCTTTNCTGA GTGTCCAGGC GCNANTGNAA AACAGNAACC 300
CTAGGGTCTG GAAACTACTT TTTTTTN 327

SEQ ID NO:2309

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02668

SEQUENCE DESCRIPTION:

GATCCAGTTG TTATAGTGAA CTCATGGTAA TGGTTTGTGA GAACAATAGA GATTTTNATT 60
TCTATGTAGA TGAGTTGGTA TGAGAATATA TGGAATTTT AAGGGACTGT TTAAATCTTT 120
GATTTGTAGA CTATTAAATA TACCGTATGC ATAAAGTAAG CCTTTAGCTC TAAGGTAAAG 180
ACGACACGTT TTCGGTTTGT GACTACAAAT AGGTTAAAAA TAGATTTTAA TTTTATTAAA 240
AATATAATTT AATGCAGGTT GTTTGAAGCA TCTGTCTTCA TATGATGGCA TTAGAACACC 300
TTGGTATAAT AAAAAGTTAC CGTAAA 326

SEQ ID NO:2310

LENGTH:322

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02669

SEQUENCE DESCRIPTION:

GATCAAGAAG GAGCTAGAGA CCATTTCAAA GAAAAAAAAT GCTTTATAGA GTTTTAAGTA 60
TGA CTAGAT GGGTCCAGGC AAATAAATA AAAAGAAGTG AAGGCAACAT GTATCGTCTG 120
GCAGAACTAA ATCTTGAGT GGGGTGAGGG ATGAAAGACT ACATATTGGG TACAGTGTAC 180
ACTGCTCGGG TGATGGGTGC GCTAAAGTCG CAGAAATCAC TAAAGAACTC ATCCATGTAA 240
CCAAACACCA CCTGTACCCC AAAAACGAAA TAAAAAACA AAACCTTGGG GCCCATTCCC 300
CCTAGGAATG GACTACTGTA AA 322

SEQ ID NO:2311

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02670

SEQUENCE DESCRIPTION:

GATCTAAATT ACCTTGGGTT TCGCATATGT CTATGAAATN CTGTGATAAN GTTTTTCAAT 60
ACATTGNTTC ACTGGCGTCT GTTTTCANTT TATACTTTTA ATAACATCCTC ACTGGTGGTA 120
CTTTATCTTG AAAAGTAATA TTTTNNATAT TTTANCATTG GACAGTGTTA GCCAGTTGTA 180
ATGATGTATC AGANGTAAAG AAAAACCCAT TAAAGTTATA GCTAATAGAT GCTGTTGGGG 240
GTAAATTA TAGTAAANTA ATCCAATATA GCACTNTNNA TGATTTNTTA TATAAANGTC 300
AACTGGTACA TTTCATTCCAG N 321

SEQ ID NO:2312

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02672

SEQUENCE DESCRIPTION:

GATCGAAGGG TTTTATAGAGA ATGTNTTTC AACCATGCC TGGTATTTTC AACCATAAAA 60
GAAGTTTCAG TTGTCCTTAA ATTTGTATAA CGGTTTAATT CTGTCTTGTT CATTTTGAGT 120

ATTTTAAAA AATATGTCGT AGAATTCCTT CGAAAGGCCT TCAGACACAT GCTATGTTCT 180
GTCTTCCCAA ACCCAGTCTC CTCTCCATTT TAGCCCAGTG TTTTCTTTGA GGACCCCTTA 240
ATCTTGCTTT CTTTAGAATT TTTACCCAAT TGGATTGGAA TGCAGAGGTC TCCAAACTGA 300
TTAAATATTT GAAGGGAAA 319

SEQ ID NO:2313

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02673

SEQUENCE DESCRIPTION:

GATCGACAAA ACTTTGAACG AGGCTGACTG TGCCACCGTC CCGCCAGCCA TTCGCTCCTA 60
CTGATGAGAC AAGATGTGGT GATGACAGAN TCAGCTTTTG TAATTATGTA TAATAGCTCA 120
TGCATGTTTC CATGTCATAA CTGTNTTCAT ACGCTTCTGC ACTCTGGGGA AGAAGGAGTA 180
CATTGAAGGG AGATTGGCAC CTAGTGGCTG GGAGCTTGCC AGGAACCCAG TGGCCAGGGA 240
GCGTGGCACT TACCNGNGGT CCCTTGCTTC ATTCTTGTA GATGATAAAA CTGGGCACAG 300
CTCTTAAATA AAATATAAAT GANCAAA 327

SEQ ID NO:2314

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02675

SEQUENCE DESCRIPTION:

GATCAACCAC ATGCACATCC TTAACACAGA ATCCGTCCTT TCATTTCAAC ATTATAGCAA 60
GCTATGATTT TNATATATAA ATATTATATA AATNANGTAT AANACATTAA AAGTTAACTA 120
TGTAAGATAT TATNTCTGAA ACAATTTAGC TATATCCACT ATGATTATAA ACTGTGTCTC 180
GACCTGTGTT ATNTACANAA GCTGCTTAAA AAAGCATTGA GTTAATTTTN TAAATATCA 240
ACTAAAATAT CATAGTTCTG TGGNNGACAT TGTGTTATAA TGANATAACT GCAACTAGAG 300
AAANCTGTAT AAN 313

SEQ ID NO:2315

LENGTH:365

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02676

SEQUENCE DESCRIPTION:

GATCGAGGAC ATAAGGAACT AGTCACAGTG TTGCTGCAAC ATAGAGCTGA CATTAACTGT 60
NAGGACAAATG AAGGCCAAAC AGCTCTACAT TATGCCTCTG CCTGTAAGTT TCTGGATATT 120
GTAGAGCTGC TGCTCCAGTC TGGTGCTGAC CCCACTCTCC GAGACCAGGA TGGCTGCCTG 180
CCAGAGGAGG TGACAGGCTG CAAAACAGTT TCTTTGGTGC TGCAGCGGCA CACAACTGGC 240
AAGGCTTAAT CAAAAGACTG GAAAACCTGCA GTCTGTAATA GCATAAGGCT TCCATTATGA 300
AAGAAAATA CAGAAATAAT ACTTCTTTTC CACCCGTCTT TGGTATGTAT TGGCTTATAA 360
AATTN 365

SEQ ID NO:2316
LENGTH:308
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02677
SEQUENCE DESCRIPTION:
GATCCTGGAG CTGGCTGGCA ACGCGTGC GT NACAACAAGA AGACCAGGAT AATTCCTCCG 60
CACCTGCAGC TCGCCATCCG CAACGACGAG GAGTTAAACA AGCTGCTGGG CAAAGTGACC 120
ATCGCTTAGG GCGGCGTCTT GCCCAACATC CAGGCCGTGC TGCTGCCCAA GAAGACGGAG 180
AGTCAGAAGA CGAAGAGCAA ATNACCCTGA CGCCGNCCTC AGGGAGCTGN CTNCGNCANA 240
TAAGGCCCTT TTNATGGTCG TCCCGCAATG CTTTTGAATG TGCTGGNTGT CATGGAGGGC 300
CGGTGACN 308

SEQ ID NO:2317
LENGTH:306
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02678
SEQUENCE DESCRIPTION:
GATCTAGATA ACTCATGACA TTTTATTTGA CCAACATAGC ACATGATGAG ATATCAAGGT 60
AATTAATAA GCATGCTTGA AAAAAAATA CGTAATCTGT TTCACCTGTA ACTGTTTAAG 120
CCAATAAACT TTTCAAAATT TATGTAATGT GGGGCTTTTA TGTAGCACTT TACGTTTCA 180
TGCTGCTTAT TGTTTTATTC TACTGAAAAA AATGANNTTC AAGATTCTCA ACTTTNTTAA 240
TTTCAAAAAT NGTTTATGGT TTTGACTATA GGAATACAAA ANTTCTTATT TNGGGNGAAT 300
AAGAAA 306

SEQ ID NO:2318
LENGTH:305
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02679
SEQUENCE DESCRIPTION:
GATCCCCTGG CTCCCAGCA CACATTCCTT TGAAATAAGG TTTCAATATA CATCTACATA 60
CTATATATAT ATTTGGCAAC TTGTATTTGT GTGTATGTAT ATATATATAT GTTTATGTAT 120
ATATGTGATT CTGATAAAAT AGACATTGCT ATTCTGTTTT TTATATGTAA AAACAAAACA 180
AGAAAAAATA GAGAATTCTA CATACTAAAT CTCTCTCCTT TTTTAATTTT AATATTTGTN 240
ATCATTTTAT TATTGGTGCT ACTGTTTATC CGTAATAATT GTGGGGAAAA GATATTAACA 300
TCAAA 305

SEQ ID NO:2319
LENGTH:303
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02680
SEQUENCE DESCRIPTION:

GATCGAAATC ACTATAATTT TAACCCTNGT GATTGGAATG AATATGGTTT GTGCTGGAAG 60
 CTCCGAGGTG GAAGAGACTC GTGCAATGGA GATTCTGGAA GCCCTTTGTT GTGCGAGGGT 120
 GTTTTCCGAG GGGTCACTTC CTTTGGCCTT GAAAATAAAT GCGGAGACCC TCGTGGGCCT 180
 GGTGTCTATA TTCTTCTCTC AAAGAAACAC CTCAACTGGA TAATTATGAC TATCAAGGGA 240
 GCAGTTTAAA TAACCGTTTC CTNTCATTTA CTGTGGCTTC TTAATCTTTT CACAAATAAA 300
 ATN 303

SEQ ID NO:2320
 LENGTH:302
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02681

SEQUENCE DESCRIPTION:

GATCCCTGCT GAATCCACAG GCCAAAATAG TCAATGTAAC TGCAAATCTA ATTCATCCT 60
 CCTTTCCTGA GGCCAACCTCA GGAAATNAAA GGACGATTCT AATTTCCTACT GCGGTTACTT 120
 TTGTGGATGT GTCTGCACCT GCAGAGGCAG GCTTCANAGC TCCACCAGCC ATCAATGCCA 180
 GGCTGCCCTT TAATTCTTTC TTCCCGTTTG TTTGACAATG CTCAGATGCA TCAGTTCCTT 240
 AATATACACG TGAAATTTGA AAACGTGTACA TTCGGTGAGA TTAAATTTTA TATACAACCTA 300
 AA 302

SEQ ID NO:2321
 LENGTH:301
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02682

SEQUENCE DESCRIPTION:

GATCCAATTA AAAAAAATTA AAACCAATTT AAAAAAAAAA AGANCACAGG AGATTCCAGT 60
 CTACTTGAGT TAGCATAATA CAGAAATCCC CTCTACTTNA ACTTTTACAA AAAAGTAACC 120
 TGANCTAATC TGATGTNAAC CAATGTATTN ATTTCTGTGG TTCTGTTTCC TTGTNCCAAT 180
 TTGACAAAAC CCACTGTTCT TGTATTGTAT TGCCCAGGGG GAGCTATCAC TGTACTTGTA 240
 GAGTGGTGCT GCTTTAATTC ATAAATCACA ANTAAGGCC AATTAGCTCT ATAACCTANAA 300
 A 301

SEQ ID NO:2322
 LENGTH:345
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02684

SEQUENCE DESCRIPTION:

GATCAAGCGG AAAGAGTTTA AGTGTCTAAC AAACCTAAAG CTAAGTAGT ACCTAAAAAG 60
 TCAGTGTGTG ACATAGCATA AAAACTCTGC AGAGAAAGTAT TCCCAATAAG GAAATAGCAT 120
 TGAAATGTTA AATACAATTN CTGAAAGTAA TGTTTTTTTN CTATCATCTG GTATACCATT 180
 GCTTTATTTT NATAAATNAT TTCCTCATTG CCATTGGAAT AGATATCTCA GATTGTGTAG 240
 ATATGCTATT TAAATAATTT ANCAGGAAAT ACTGCCTGTA GAGTTAGTAT TTCTATTTNN 300
 ATATAANGTT TGCACACTGA ATTGAAGAAT TGTTGGTTTT TTCCN 345

SEQ ID NO:2323

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02685

SEQUENCE DESCRIPTION:

GATCTTTTCT AATATGGTAT TACAATGAAA AGAATAAAGA GAAGATTGGA ATTNCAAGTT 60
TCATTTTCAA AAATATTTA CAAAAACAAA TGGAGAAGAA ACATCCAAAA GCACATTTC 120
TTTCTCCAAA CTGTGTGTTT TAAATTATAG TTATAAATNG TAAGGTAATT TTAAATTGTC 180
CCTCGTATTA TTNCTCCACG CCTGTTTTAG TNTNNGGTCT CCTAAGCTTT TCTCTCATAG 240
CGTAGACCTA GGGAAGGGAT GGGAAGATTG CCCAGTCCCC GATGGCTGCG CACACAGGN 299

SEQ ID NO:2324

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02686

SEQUENCE DESCRIPTION:

GATCCCTCTG TACAGGCTGG ATGGAAGGGG CCCTCCACAC TTCCTGGGAG GTCAGAGACA 60
AACTGTTTCA GAGAGTCAGA TGGACTTCCC AAGACTTGTT GAGAGATGTG ACATGGTTCT 120
TGGATTTCCT CTGTAGCAGC CTCCTGGACT TCCTGAGGAC TCGACATTGT CCACAGATGT 180
ACTGGCCATT ACATGAAACA AGAAACCAAG CATCTTTGCT GTTGTTAATT ATTATATGTG 240
CCATTGTTAC AGGAGATTAT AGGCTAGTCT GTAATAAATT ATCTTATAGC AGCCAAA 297

SEQ ID NO:2325

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02687

SEQUENCE DESCRIPTION:

GATCAGCAGC CGAGAAAAGT ACATCAACAA TCAGCTTGAG AATTTGGTTC AAGAATATCG 60
TGCAGCTCAA GCCCAGCTGA GTGAGGCAAA GNAGCGATAC CAGCAGGGAA ATGGAGGNGT 120
GACGGAAAGA ACCAGACTCC TCTCTGAGGT TNNGGAAGAA TTAGAAAAGG TAAAACAAGA 180
AATGGAAGAA AAGGGCAGCA GCATGACTGA TGGTGCTCCT TTGGTGAAGA TTAANCNNNG 240
CTTNNCANAA CTGAAGCAAG AANCTGTAGN GATGGACATT AGANTTGGCA TTGTGGN 297

SEQ ID NO:2326

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02688

SEQUENCE DESCRIPTION:

GATCCNACTT TAGAAGCCTA CTTNTAACC AAGGAGCTCA ATTTTTTTTT TAAAGCTTTA 60
CTAATCTACC ANAGCATTGT AGATATTTTT TTTTAACATC TATTGTTTAA AATAGATNAT 120

TATAACGGGG CAGAGAACTT TTTTTCTCT GCAAGAATGT TACATATTGT ATAGATAAAT 180
NAGTGNCATT TCATACCATG TATATATAGA GATGTNCTAT AAGTGTGAGA AAGTATATNC 240
TTTAATAGAT ACTGTAATTA TAAGATATTT TAAATTAAAT ATTTTTTTGT AAATAAA 297

SEQ ID NO:2327

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02689

SEQUENCE DESCRIPTION:

GATCCTATGT CTGTCTGTCC ACCACGAGAT GGGAGGAGGA GAAAAAGCGG TACGATGCCT 60
TCCTGACCTC ACCGGCCTCC CCAAGGGTGC CGGCACTCTG GGTGGACTCA CGGCTGCTGG 120
GCCCCACGTC AAAGGTCAAG TAAGACGTAG GTCAAGTCCT ACGTCGGGGC CCAGACATCC 180
TGGGGTCCTG GTCTGTNAGA CAGGCTGCCC TAGAGCCCCA CCCAGTCCGG GGGGGNTGGN 240
GAGCAGTTCC AAGACCACCN CACCNCTTTT TGTAATNTT GTTCATTNTA ANTCAAATAC 300
AGCGTNTTTT TCANTTCTGG GAAA 324

SEQ ID NO:2328

LENGTH:291

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02690

SEQUENCE DESCRIPTION:

GATCTGCAGG GGTCTGGGAG TCAGGCCCGG CCTATTGCTT GGGTCTCTCT CTATTTATAT 60
ATCTAAGTTC ACAGTGTTTC TTATTCCCC TAAGCTTCTA GAGGCTCATG GCCCTGTAGT 120
TAGGCCTGGC TCATTCTGCA CCTTTCCAGG GAGGTGGAAG GACCCTGTGC CCTCCTTCCC 180
AATCTTCTTT TTCAGGCTCG CCAAGGCCTA GGACCTATGT TGTAATTTTA CTTTTTATTT 240
CTAAAGTTGT AGTGAAGCTC TCACCCATAA TAAAGTTGT GAATGTTCAA A 291

SEQ ID NO:2329

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02691

SEQUENCE DESCRIPTION:

GATCTAGAAT CTCTTTATGT TCTCCAGAGG AAGGTGGAAG AAACCATGGG CAGGAGTAGG 60
AATTGAGTGA TAAACAATG GGCTAATGAA GAAAACTTCT CTTATTGTTT AGTTCATCCA 120
GATTATAACT TCAATGGGAC ACTTTAGACC ATTAGACAAT TGACACTGGA TTAAACAAAT 180
TCACATAATG CCAAATACAC AATGTATTTA TAGCAACGTA TANTTTGCAA AGATGGNCTT 240
TANAAGATGC TGTGTAGCTA ANCTGAANTA ATTCATTTAC TTATTATTN 290

SEQ ID NO:2330

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02692

SEQUENCE DESCRIPTION:

GATCACTCCG CCTTNTCCTG GGCTCCCGTA GCACACTATA ACATCTGCTG AAGTGTTGCT 60
GTTGCACCAT ACTTTCTTGT ACATTTGTGT CTCCTTCCC AACTAGACTG TAAGTGCCTT 120
GCGGTCAGGG ACTGAATCTT GCCCGTTTAT GTATGCTCCA TGNNGGNCC ATCATCCTGC 180
TTGGNGCAAG TAGGCAGGNG CTCAATAAAT GTTTGTTGCA TGNNGGNAA A 231

SEQ ID NO:2331

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02693

SEQUENCE DESCRIPTION:

GATCGCTAC AAGCCAGCCC CTGGCACCTG CTGCTACATC ATGAAGATAG CTGCAGAGAG 60
CATCCCCAGT CTTGAGGCTC TCAATAGAAA AGNCCACAAC TTCCAGATNG AATGCTCTCT 120
GCAGGCCAAG CCCGCAGTGC CTACGTCTAA GCTGGGCCAG GCAGAGGGGC GAGATGCAGG 180
CTCAGCACCC TCCGGAGGGG ACCCGNCTT CCTGGGCATG GCCGTGAACA CCCTGTNTGG 240
CGAGGTGCCG CTCTACTACA TCTAGGACGN CTCCGGGTCA TGTGN 285

SEQ ID NO:2332

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02694

SEQUENCE DESCRIPTION:

GATCTAGAGG TTCCANTGCT ATNCTCTCTT CTTGTCTGAG AGCCAGGACC CTGGGGGAAA 60
TAACGGGCAA AAAAGCACTT TNAAGACAGA TATAGTGGGA ATTNATAAAC GACTTGATAG 120
AAACAGAAAT GAACTGTTTT ATTTNATNCT CTGAGGACTC TGCTCATCAC CCANTAGTAC 180
CATTTCTTTT CTCAGAATGG ATTCTTCCC CTATCTATCT AATCATTAGA GATGTAGCTA 240
NGAAATTACA TGTATGCATA TGTNTAATAT GTATATGTNT ATGTN 285

SEQ ID NO:2333

LENGTH:283

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02695

SEQUENCE DESCRIPTION:

GATCTTAAAG CTTTGAGCAC CTGCCATTTT GCCTTGCATC GTTCCCTCG TCATGCATTT 60
CCACATATCC ACAAACACAG AACGACTTTA GACAAGCACA TGTTACACCT GTGTTGCCAC 120
AAGCAGTCAT TCTTGACGGC TCCAGTTTTT ATTTGACACT TGAGTTTGTG TTTCTCTTTT 180
ATAAACCCAG TGAACCTCTG CACTGGCATT TGGATGTGTG TTAATGCTAT TTGTTTGTG 240
TTAAAAGTAA AACCTTCTC AGTTTGAAC TGTATTCTCT AAA 283

SEQ ID NO:2334

LENGTH:283

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02696

SEQUENCE DESCRIPTION:

GATCTATTAA AAAGGTTAAG AGGCCAGGTT ACCCACCANT CCTTGCACTG TNCTGACACT 60
TTCCCCAGGA GGAAAACAAG TACAAAGGTT ACGGTGGAGG CATAAGTAGA AGAGATTGTN 120
AAGAAGGGTA ATTCATGTNT CTTTGCTCTT NCTGCTTTAT GCCTCANTTT GGTTTAAAAA 180
CTTCTNTACT GGCAAATGGT GGTATTCAGT GTGGGATAGT GTCATAACTA ATTTGACAAT 240
TTATTAATGA TAAATAACA ATAAATGTCT AGCTTTTACA AAA 283

SEQ ID NO:2335

LENGTH:283

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02697

SEQUENCE DESCRIPTION:

GATCACAAAA AAATCAGTCT TTAAGCATTT GCTTGGAAG GTTCTTAAN ATNAGGTTTA 60
TAATACAACC ATCTGTAATG TATCTNTCGN TTGANCTTGT GGGCCATACA ATTCATTAAC 120
TAGATGNATA CATTGTGGAC AGCATCCTCA CTACCCCTCT CTACTCACTC ACAAAGAACC 180
ATGATACACT GGAATGTTTT TNTNTGGAAT CCTCTTTCTA CTCTTGATT AAAATTTTNC 240
CCCCTTCAT GATTATATNC AAAATAACA ACTACATCAT AAA 283

SEQ ID NO:2336

LENGTH:282

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02698

SEQUENCE DESCRIPTION:

GATCAGCTTG CAGAGTCTTG CTTTTAGGTT AGATACAAAC AAAGTAAATC ATAGTTGGTG 60
TAAATCCAGC AAAAAACAGC TGGCTTTGGA ATGGAGAACA CTACAATTCA AATTTGAAGT 120
ATATTCAGAA GAAACTTTG GAATTAGCTT TACATTTGTT TGTAATCTA AACAAATNTG 180
CAAAATTGGT CAAATGTAA GTNTATNGCA TTTTAAAGA TTANTGGTTC CTTTTATGTG 240
CTGATTTCTT TGTATTCTGT TCTCTGCATT CATCATTGAG GN 282

SEQ ID NO:2337

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02699

SEQUENCE DESCRIPTION:

GATCTGTACC ACACCTTCCG GCCAGCTGTC CTCCTGCTGA TGTTCCCTCAG TGTCTACAAG 60
GCCTTTGTTA TGGAGACCTT CGTCCACCTC TGCTCGCTGG GCAGTTGGGC AGCTCTACTG 120
GCCCCAGCAG TGGTAACGGG GCTGCTGGCC CTCAGCACTT TGGCCCTGTA TGTCGCCGTT 180
GTCAATGTGC ACTCCTAGGC TTGGTGTCTC AGACATTGTA TGTACCTTTT CCCTGNCTCG 240
NTCCAGGTTT TTAGTGAAGT AAACAGGTAT TTTGGAAAGT TAAA 284

SEQ ID NO:2338

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02700

SEQUENCE DESCRIPTION:

GATCAACGAC AGCCTCCAGT TTCCACTTNG TGAGAGAACA AAGGAACCGG GGCATGCTCA 60
NCTATGGCTG CAAGCCNTTC AAGTGAAGCT GGGCACTTAC CCCCTTNATT CCATTCTCCT 120
CAGGATAACA GATTAAAATT CCAGAAGTGT GCACCTGTNG TNTATTCAGG AGATTNTCGT 180
TNTGCATAAA GAGACCACTT GAGGCCCTGT AAGCAAAGAC TAATTNGGTC TNAGTCAAAA 240
TCTTGGAAT CTGATNAACT AACACACTCA AATGAAACTN 280

SEQ ID NO:2339

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02701

SEQUENCE DESCRIPTION:

GATCTGGAGC AGGAAGGCCT CGAGGCACAC AGGGGCTGCT GGCCGGCGAG TGGGCCCCAC 60
CCCTCTGGGA GCTGGGCAGC CTCTTCCAGG CCTTCGTGAA GAGGGAGAGC CAGGCTTATG 120
CGTAANTTCA TAGCTTCTNC TGGCCTGGGG TGGACCCAGG ACCCCTGGGG CCTGGGTGCC 180
CTGAGTGGTG GTAAAGTGGA GCAATCCCTT NACGCTCCTT GNCCATGTTC TNAGCGGNCA 240
GNTTGGNTTT NNCCTTNAAT AAATNTGCTT TATTNCTCT TCAAA 285

SEQ ID NO:2340

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02702

SEQUENCE DESCRIPTION:

GATCGTAAAC TTGTTGATAA AGAAGATATC GACACTAGCA GCAAAGNAGG CTGTGTCCAA 60
CAGGCTACTG GCTGGAGGAA AGGGACAGGC CTGGNATATG GCCATCCTGG ATTGGCTTCA 120
TCAGAGGAGG CTGAAGGCCG GATGAGGGGC CCCAGTGTG GAGCCTCAGG AAGAACCAGC 180
AAAAGACAGT CCAACGAGAC TTATCGAGAT GCTGTTTCGAA GAGTCATGTT TNCTCGATAT 240
AAAGAACTCG ATTAAGNAAG GNGNCAAGTT CCATGGGATA CAACCTACCT CTTGTTTTGT 300
TTGTCTCTCC TTTTCTTTN 320

SEQ ID NO:2341

LENGTH:519

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02703

SEQUENCE DESCRIPTION:

GATCTGAAAG GAGCAAGGAA CAGCAAGGAA TTATTTTCCA GAATGACACC CGCAGCAGAA 60

TGTGGAGTG GAAATGATGG CTGGCTATGA AGAGGAGGTC AACGTGTGTG GTCTCCTCAG 120
 TCTCTGTCAG AGGGGTGGGG AGGTGGGAAA CAGGAATCCT CTGCAAAGCC CAATCTGCAG 180
 AGTCGAGACC CCTGGTGCTC TCTGCCCCGC TGCCTGGCAC TGGTCCTTTG CAGCCAGCCA 240
 CCAACGGCCC CCTTGCCCTT NCAGAGGCAG AAGCCTNCGT CTNAACCTGC ACCTCTGACC 300
 GTTNAGCAC CNTTGGGTTN TTACCANGTC CTANAACCTCT GANATTTNTT NGTTCTAAAA 360
 GGGGTTTCTA TTTCAACTTG NTGAGTTTGT NTTTTGGGNC CTTCCAATTT GGGNTACCTT 420
 GNTATNTTNN ATGGTTTTAT AAATCCTTNA CTCTTGGNAN GTTTTAATTN TTTACAAAAT 480
 CAGGGATAAC TTTNGTTTNA ANACTGGTTT GAAGGAATN 519

SEQ ID NO:2342

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02704

SEQUENCE DESCRIPTION:

GATCCCAACT AATTTTACCG AACCTAAAAC CCACAAAGAG GTTGTTTGTG TTATTGTTCA 60
 ATCTTCAGTT GTAAGAGTAA TTCTCTATTT TNATATTGAA ACATAATTAC TTGATAGCTC 120
 AGGGTCTACA TTTCAATTCAA CTTTTTACAC CAAATTCTGC AGAGTGGTCA AAATGGAATA 180
 TTGGGGGCTG TTGTAAACAG AGGCTTAATT TTATTAGAAG TAGCCAGTTA TTTATTAAAG 240
 CATGATGTTA ATAAAATAGG CATATTCTGA AA 272

SEQ ID NO:2343

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02705

SEQUENCE DESCRIPTION:

GATCTGACAT GATTCCTTCC TGTTCTGAAC TGTGGGGTGT GCACATCTCT ACTTGAGTCA 60
 GGTTTNAGTA GAGGCTTAGA GACAGTTAGG TGAGAACAAC CAAAATCTTA TCATGGTCTC 120
 AGTCANNATC ATTAGGGGGA ACTCTAGCCA AATNGTTTAA CTTCTGCCTG TGGAAGTGGG 180
 GATTGGGTGG GCAGGAAAAG GTGATATCCA TTCTTTCTGA TAACTAGATG GTGCTGAGAA 240
 GCTTTTGAAT AAAAAGTTTG CTAATGAGA AA 272

SEQ ID NO:2344

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02706

SEQUENCE DESCRIPTION:

GATCTTTCCC AGGCCGCACC ATTTCTNTCA CTCACATGGA CCCAAGATAN AAGAATGGCC 60
 AAACCTCAC AACCCCTGAT GTTTGAAGAG TTCCAAGTTG AAGGGAAACA AAGAAGTGTT 120
 TGATGGTGCC AGAGAGGGGC TGCTCTCCAG AAAGCTAAAA TTAAATTTCT TTTTCTCTCT 180
 GAGTTCTGTA CTTCAACCAG CCTACAAGCT GGCCTNGCT AACAAATCAG AAATATGACA 240
 ATTTAATGAT TAAAGACTGT GATTGCCACC AAA 273

SEQ ID NO:2345

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02707

SEQUENCE DESCRIPTION:

GATCCATGAA GCTGCCCTGC CCACGCCTCC CCTCCCTGTA GCAACACCTC TGGGTGTTTG 60
GAGTTTAGCT TTTGTGGGTT TGCTCTCCCT ATCCCATCTC CTGTACTACA CAGTTCATGG 120
CAGGGTGGGG AGNNGTGGGG TTGGTTCGGG TGGGTGAGGG TCTTTTCCT CTGTGTGCGA 180
TGTTGTTATC TGACAGNTCT CCGTCCCTAC TGGCCTTTCT CCTCGTCTTC ATATTGTAC 240
GGTACAAGCA ATAAAGACAC TCATTTCAGA CCAGAAA 277

SEQ ID NO:2346

LENGTH:431

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02708

SEQUENCE DESCRIPTION:

GATCTTNCTA GGAGGGAGAC ACTGGCCCCT CAAATCGTCC AGCGACCTTC CTCATCCACC 60
CCATCCNTCC CCANTTCATT GCACTTTNAT TAGCAGCGGA ACAAGGAGTC AGACATTNA 120
AGATGGTGGC AGTAGAGGCT ATGGACAGGG CATGCCACGT GGGCTCATAT GGGGCTGGGA 180
GTAGTTGTTT TTCCTGGCAC TAACGTTGAG CCCCTGGAGG CACTGAAGTG CTTAGTGTAC 240
TTGGAGTATT GGGGTCTGAC CCAAACACC TTCCAGCTCC TGTAACATAC TGGCCTGGAC 300
TGTTTTNTCT CGGCTCCCCA TGTNGTCCTG GTNNGGTTT TNTCCACCTA NGACTGTAAA 360
CCTCTTCGAG GGCAAGGGAC CACACCCTGT AACTGTTCTG TGNCTTTTAA CAGGTTCCTN 420
CCATTAATGC N 431

SEQ ID NO:2347

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02709

SEQUENCE DESCRIPTION:

GATCTTTTGT GTCTGGTTCC TTTACGTTG AACGCTATTT TTAAGGTTTCG TGCCTGTTGT 60
AGACCACAGT CACACACTGC TGTAAGCTTA CCCCATCCTC ATCCCAGCT GCCTCCTCCT 120
ACTGTTTCCC TCTATCANN NGCCTCCTTG GCGCAGGTTT CCTGAGCTGT GGGATTCTGC 180
ACTGGTGCTT TGGATTCCCT GATATGTTCC TTCAAATCCA CTGAGNATTA AATAAACATC 240
GNTAAAAGAA TGACCTTCCC AAGGNAAA 268

SEQ ID NO:2348

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02710

SEQUENCE DESCRIPTION:

GATCAGAAAC CAGTCTCCTT CCCCGTAGTC TGGACTGGGT ATCCCCTCTT AAATNTTTC 60
 AAAGCAACAC AAATTTAATT CCGTCACAGA ACTTGCCACT CTGTGCTGTG TCCTCTGTTT 120
 CCTTGCCATC TTCCTCAATN AGCTGGAAGC CCATTGGCAG CAGGGACTGT TTCTTGTTCA 180
 CAGCTGCACC TCAGTGCTAA GCATAGTGCC TGGTAGGTAA TAGACTCCTT AAGTATTTGT 240
 TGAATTAATA AAGGATGNNT TTTTAAA 268

SEQ ID NO:2349

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02711

SEQUENCE DESCRIPTION:

GATCAGAAGC CATTNNATTT GGTAGGTGTG TCAGAAGGGA GAATGATGGN AGACGAACTG 60
 CTGGAAGAGG TCAGAAGATA GCCATGCTAA AATGCAATTA TATCCTCATG TTTATCCCAA 120
 ACTAATCTTG GACTTTTCCA CTCATTAGCT TTGTTNTGCC CTTGTTTCCC TTGAAGGTTT 180
 AAGTTCAACC ATATTCTGTC AACTGTTTCA TTTCAAGTGA ATCTTGATT TCTGGTTCAT 240
 TATAACAAAC TGTTGCTTA AATCCAAA 268

SEQ ID NO:2350

LENGTH:398

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02712

SEQUENCE DESCRIPTION:

GATCCGAGAA CGCTCTAAGC CTGTCCACGA GCTCAATAGG GAAGCCTGTA ATGACTACAG 60
 ACTTTGCGAA CGCTACGCCA TGGTTTATGG ATACAATNCT GCCTATAATC GCTACTTCAG 120
 GAAGCGCCGA GGGGCCAAAT NAGACTGAGG GAAGAAAAAA AATCTCTTTT TTTCTGGAGG 180
 CTGGCACCTG ATTTTGTATC CCCCTGTAGC AGCATTACTG AAATACATAG GCTTATATAC 240
 AATGCTTCTT TCCTGTATAT TCTCTTGTCT GGCTGCACCC CTTTTTCCNG NCCCCAGATT 300
 GNTAAGTAAT NGAAAGTGCA CTGCAGTGAG GGTCAAAGGN GAGGCAACAT ATTNTNNTTT 360
 TCCATAATAA AACTTTCTTG GGGGNNATAC TTTTCAA 398

SEQ ID NO:2351

LENGTH:381

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02713

SEQUENCE DESCRIPTION:

GATCTGCAAG CATTGCTCT TGTTTCCACA TCACCTCTGG GATATTTTCA CTGTTGTTTC 60
 CAAATGGCAA ATCATCAACT AAANGCACTT GTTCAAGT TTGTTCTGCA CTCCCACGAC 120
 TGAAGTTGTA GATTGAGCTG AATAACCATG GGAAGTGANC AAGCAAAGAC ACTCGATTGG 180
 AGTCAGTTGA ATATTTGTAC CCTCAGTGGA GCCCTTCTGG TCTTTTCTTC CACTTCTGCA 240
 GAATTTCTCT TAGCAAATAC TTCTTTCTCC TTGCTTGCCCT CCACCATGAT ATTTGAATAA 300
 GAGATGGCCA GAGGATAACA CTTGTCTCTT AAAAATAAG CTAATAAGGA CCTAGGAACC 360
 TTCAATTTGA GCAGTTGGTT N 381

SEQ ID NO:2352
LENGTH:265
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02714
SEQUENCE DESCRIPTION:
GATCTGCCCC CCTTGGCCTC TCAAAGTGTT GGGATTGCAG GCGTGACACG TGCTCCTGGC 60
TTGAATTTTC TTATAATCCC ATGAAACCAT CATCAGAGTC ACAATAATNA ATTTATCTAA 120
TCTATCACCT TTGTATTAC CTTGGAGCCTT TATAAAGTTT TTNTCTATGC AGACAACCAT 180
TGATTTACTC TGCTGTATAA TACTTTCCAT TTTCTAGAAT TTTCTGACTG ATGTAATAAA 240
GTGTTTCCTC TTATAATCCC TGAAA 265

SEQ ID NO:2353
LENGTH:265
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02715
SEQUENCE DESCRIPTION:
GATCGGGGGC TTGAACCCAG GTGGTCAGGC TCTGGAGCCC ACAATTGTNT TACCCACTAT 60
GCCCCTCTCT AGTCATGGTC CCCAAGAGGG GCTTGGAGAC CCACTTAGCA GGTGAAAGCA 120
ATGGCAGCCT TCCTTATTTG ATTATGCACC TAAGAATAAA TGGTATTTGG GCATGTATTC 180
CCAATATGTG TATATTTATT TATAAATATA TACAGATACT ATNATCTGTA TGTNAGTAAT 240
AAAGCTTAAA TTATTCCATT TTAAA 265

SEQ ID NO:2354
LENGTH:379
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02716
SEQUENCE DESCRIPTION:
GATCGGCGGA CGCCCATCAC CGTGGTGAAG CAAGGCTTTG AGCCTCCCTC CTTTGTGGGC 60
TGGTTCCTTG GCTGGGATGA TGATTACTGG TCTGTGGACC CTTGGACAG GGCCATGGCT 120
GAGCTGGCTG CCTGAGGAGG GGCAGGGCCC ACCCATGTCA CCGGTCAGTG CCTTTTGGAA 180
CTGTCCTTCC CTCAAAGAGG CCTTAGAGCG AGCAGAGCAG CTCTGCTATG AGTGTGTGTG 240
TGTGTGTGTG TTGTTTCTTT TTTTNTTTN NNNAGTNTCC AAAAAAGCC CTNAAAAAAT 300
TCAGGGNCCT TGAAAAATTN TNTAAATGC CAGNNTTGG GGAAATNAAA CCCANTAAAA 360
ACNTTTTGAG GGGTGNAAA 379

SEQ ID NO:2355
LENGTH:261
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02717
SEQUENCE DESCRIPTION:

GATCACAAAA CAATTCTAAA ACCTAACTGT TTTTACCATT GAAATTTAAA TTGTGATAAT 60
 AGGTTTTTAAA TGTCTAGAAT GCAACTGATA GGCTTTTCTT GAACTGTTAG TTTTTTTGAA 120
 GTAGTTTTTTT CATGTTTANN NNGTATTTGT AAAAAAACA AAAGCAAAAA AATCCCAAA 180
 ACCCAGATAA CAACCAGAGC AAAACTGTTG TGCCTTCTAT TTATCTTTGA TTTCAGTCTT 240
 GGCAATTGTT TAAAAAAN N 261

SEQ ID NO:2356

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02718

SEQUENCE DESCRIPTION:

GATCATTGGA GAGAGAATTG CACAGAAAGT CCTGAAGTTT AAAACACTTT ATGACCAGCT 60
 TTGGCTCGGG AGAGTGGGGC TGCTTGTAGA ACTGGAAGTG AATAACTTTT TCAAGCAATA 120
 TCAGTGAGTG GGTCCCATCG ACAGGGTTCC AGGACCTGGA ACACTTTAAC AGAAGGAAAT 180
 GCCGAAGCAG CTTGCACAGT NGCTTGACAG ACTTCCAAGN NGGCTGATTC TGGCTTCAAG 240
 ATGGAGCCTT GGAGTTGGN 259

SEQ ID NO:2357

LENGTH:296

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02719

SEQUENCE DESCRIPTION:

GATCTGGGAG TACACCAGGC AGCAGCTGCT CTCGNACGGA GATACCAAGC CATGATGTGC 60
 CNNNNTTAGT GAACTGCTGC TGCTGTTCAG ACTTTTTTAA AAAAACTAT TTGGACTAAA 120
 GAAACAGATT CTGAAATTTA TTGTGATAAT TTGTATTTCT TTTTCTTGC AATTTAATGC 180
 CAAAAGTTTG CCATGTGCCT TAAACATATT ACTATATATT TNCCCCTTTA ATAAACACTT 240
 TTNGTTAAAT TGTATTCTTC CTTTAATAAA ATATTTTAAG CAATTGTGGA AATAAA 296

SEQ ID NO:2358

LENGTH:254

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02721

SEQUENCE DESCRIPTION:

GATCAGAATA CATGATGGAT GAAATTCCTT ACATGTTTTA GCAGAATNAA TTTGTTTAAT 60
 ATAATAAAGT TTGCTACTTA TCTGTATGTA GGTTGCTAAA AANGATTTTC TTAATCAGA 120
 TTTTAAGCCA AATAACCAT TAACACTAGT ATTTGTTAAA TGGGTATTT TNCTGTATTT 180
 GTATGTTTCA CTATAATAAG GGAATTAAGG ATAATGTGCA TTGAGAATAT TTTGAAAANT 240
 AATTGACTCA AATN 254

SEQ ID NO:2359

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02722

SEQUENCE DESCRIPTION:

GATCAGTTAT AAGTAGCAGG CCAAGTCAGG CCCTTATTTT CAAGAACTG AGGAATTTTC 60
TTTGTGTAGC TTTGCTCTTT GGTAGAAAAG GCTAGGTACA CAGCTCTAGA CACTGCCACA 120
CAGGGTCTGC AAGGTCTTTG GTTCAGCTAA GCTAGGAATG AAATCCTGCT TCAGTGTATG 180
GNAATAAATG TATCATAGNA ATGTAAC TTTT TTGTAAGNCA AAGGTTTTCC TCTTCTATTT 240
TGTAAC TCA AAN 253

SEQ ID NO:2360

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02723

SEQUENCE DESCRIPTION:

GATCAATCCC AAGAATCCAT CAGCAACCTC AGACCAACCC AAGAAGATAA TTAAATCTA 60
TACTGCTTAT TGGTCAATAT ATTTGGTTCT AGTATTAATA AAGAAAAATG TTATTTAAAT 120
AGCATACATA GTAGTAAAT AAANTACANA AAGTGTGTTG ATTTATAGCT GTTTGAGATG 180
ATAAAAGTGN AGCAAAGCCT GTTAAATCAT TGGAAGACTT GGANANTTAT TTAAATAAN 240
CAATTACATG TAN 253

SEQ ID NO:2361

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02724

SEQUENCE DESCRIPTION:

GATCTGCATA AACAGGGTTC CTGACCTCAC CGAAAAGACT AATGTGCCTT AGAACAAGCA 60
TTTGCTGTGT TTTGTTAGCA CCTGGTTCCA GGACAGACCC TCAGCTTCCC AAGAGGATAC 120
TGCTGCCAAG AAGTTGCTCT GAAGTCAGTT TCTATCGTTC TGCTCTTTGA TTCAAAGCAC 180
TGTTTCTNTC ACTGGGCCTC CAACCATGTT CCCTTCTTCT TAGCACCACA AATAATCAAA 240
ACCCNACATA AA 252

SEQ ID NO:2362

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02725

SEQUENCE DESCRIPTION:

GATCTTCTCA GCCAGGAGAA GAGGGTGGTG TTTTCACGCG GGCAACTGCT CGCCGGCCTA 60
CATGGGGTTA ATTCAGTCT GCTGCGAGCA CGACTCCGCC CTTGGCACTG GCCTCCAGCA 120
AGCCCTGTTC TCTTTGGGGT ACAGGGGAAC GGGATGGTTT AGACTTTCCT GCTCAGTGTG 180
TAAAAAATGT AGCTAAAGCC ACTATTTTGT CTCTCCTTAA GCTGTTCAAT AAACCGGTTC 240
CTCATTTTAA A 251

SEQ ID NO:2363

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02727

SEQUENCE DESCRIPTION:

GATCTGGAAC ACTCCCCTGA CCCCTTCACA CCTGGCCCTC CCTGGGCTTA AAGCTCCTGA 60
TATTCCTCAT CCCCTTCCTT GTTTTCCAGA ATCGGTCGAG GTGGACGGTT TGGCCGTAAA 120
GGTGTGGCTA TTAACATGGT GACAGAAGAA GACAAGAGGA CTCTTCGAGA CATTGAGACC 180
TTCTACAACA CCTCCATTGA GGAAATGCCC CTCAATGTTG CTGACCTCAT CTGAGGGGCT 240
GTNCTGCCAC CNAGCCNCAG NCAGGGCTCA ATCTCTGGGG GGCTGAGGGA GCAGCAGGGA 300
GGGGTGGN 308

SEQ ID NO:2364

LENGTH:245

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02728

SEQUENCE DESCRIPTION:

GATCGTAGAT TTTTAACAAT CTGTATCTTT AACAAATTCTG GGTGCNAGTG TNAGAGTGTG 60
AGCAGGGCTT GTCCTGCCA ACCACAATTC AATGAATCCC CGACCCCCCT ACCCATGCT 120
GTACTTGTGG TTCTCTTTTT GTATTTTGCA TCTNACCCCG GGGGGCTGGG ACAGATTGGC 180
AATGGGCCGT CCCCTCTCCC CTTGGTTCTG CACTGTTGCC AATAAAAAGC TCTTAAAAAC 240
GCAAA 245

SEQ ID NO:2365

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02729

SEQUENCE DESCRIPTION:

GATCTAACCA ACTCAACTGA TAGAAAGCTG AATTGTTCCC AGTGGACAAG TGGTATTTGA 60
TGTTTAGCAG GTTTTTTTGT TGTTATTTTT TTGGTAAACT CTGTGGTAAA ATCTAAAATA 120
ATGTTAAAAC CCTAAAAGTA ACTATTGANT ATNCTGTAAT CTTAGACATG TATTTTCAA 180
GCTAACCCCTT TGAAGAAATG TGTTCAGGT AGGAAAATAT AAAATTTTTT GGTTATTTGT 240
AAATTTAAA 249

SEQ ID NO:2366

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02730

SEQUENCE DESCRIPTION:

GATCATGCAT TGTTGAGGTG GTCTGAATGT TCTGACATTA ACAGTTTTC ATGAAAACGT 60
TTTATTGTGT TTTAATTTA TTTATTAAGA TGGATTCTCA GATATTTATA TTTAATTTN 120

ATTTTTTCT ACCTTGAGGT CTTTGACAT GTGGAAAGTG AATTGAATG AAAAATTTAA 180
GCATTGTTTG CTTATTGTTT CAAGACATTG TCAATAAAAG CATTGAAGTT GAATGCGAAA 240

SEQ ID NO:2367

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02731

SEQUENCE DESCRIPTION:

GATCTATACT GTGTGGTCAT GAGTTGTGTA TAGTTCATA ACACTGTATT TTNCTNCTGT 60
CAGTACCCTT AGGATACACT NTAAACACC TTAAGGTCTG ATGTTATGGC AACAACTAC 120
TTNTTCAAAC CTAAATAGGA ACCATGTAAT TNCTCAAAAG TGATTGAACA GTTGCCAC 180
ACTTAGTTTG TTGGTCTTAT GTAAACATT GGCTCAAAAT AAAGNNCACA CTGATTTATT 240
TNACTGNAA A 251

SEQ ID NO:2368

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02732

SEQUENCE DESCRIPTION:

GATCTGAAAA TTTATTTTAC CCAGCTTTCA CAATTAAGTC TGTATAAAAT GTGGTACCTT 60
TTNGTACCTA TCCAGAGAAA CCTGTACATA TTCAATGTTA TCTAGATGTG ATTGGATAAT 120
GGAGAAAATN TATTTATAAT GATTTTNCAA TGGCATCAAT AACATTTAAA TGATTTTGAA 180
GAAGTATTAT TTTACTACCC TATAAAATGA ATCGAAAATA ATAAAGTTCT TAACATAAA 239

SEQ ID NO:2369

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02733

SEQUENCE DESCRIPTION:

GATCAAAATTA TCTTCAGCAT GTATATCTGG GGAAAAAAGG TCCGAATTTT CACATTTATA 60
TTTAAANTTC AATTTTTTAT ATTTAAANTT CAATTTTTTA GCAACAGCTG AATAGCTTTG 120
CGGAGGAGTT TAATAGTTAC ACATTCATGC TAATATACAT TNCCTTTAAA CATCCACAAA 180
TTCTTAAAAA GATTGAATCA GTANATTCA TTTCAGCTAA AAATGGAGTC TAATATATN 239

SEQ ID NO:2370

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02734

SEQUENCE DESCRIPTION:

GATCCACCCG CTTGGCCTC CCAGAGTGCT GTGATTACAG CTGTGAGCCT CCGTGCCAG 60
GCCAGTGTTT TCTCTTAAAT GTGTTTCAAT ATGGTGGACA TTTATTGAGC ACTTGTTGTG 120

GGCGTTTCAA CAGGAGGCAC TGGTACGAAA AGTAGCTTGT TCTAGTTCAT ATATCATTTG 180
CACTTTGCTT AACTTGTATA AGTACTTTTT ACTGTTTAAT AAATATTTTA TTAGAAA 237

SEQ ID NO:2371

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02735

SEQUENCE DESCRIPTION:

GATCAAAAGA GCAAACAATA CTTTCTATGG CTTATCAGCA GGAGTGTTTA CCAAAGACAT 60
TGATAAANCC ATAACAATCT CCTCTGCTCT GCAGGCAGGA ACANTNTGGG NGAATTGCTA 120
TGGCGTGGTA AGTNCCCAGT GCCCCTTTGG TGGATTCAAG ATGTCTGGAA ATGGNAGAGA 180
ACTGGGAGAG TACGGTTTCC ATGAATATAC AGNGGTCAAA ACAGTCACAG TGAAAN 236

SEQ ID NO:2372

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02736

SEQUENCE DESCRIPTION:

GATCCNATTC CCGTTGCCTC AAAGCACCAG CTCTCTCGCT CCATCCTCCC AAGAGCCTCC 60
AAGGCGCCAT TGGCTTCCTG GGACTCTGAG TCTGCCGGCC TCTTTCCTG ACTCCAGTTT 120
CTTCTGGCCT GAGCCAATGG GGCATGTTCT GTGACTGCAT TTGCATCTCG GATTGTGTTT 180
TTAAACCCAT TTTCTCCCAT ATTTGCCTGA AAAATATATA GAAACTGATA TACAAA 236

SEQ ID NO:2373

LENGTH:245

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02737

SEQUENCE DESCRIPTION:

GATCAGGCTG GTACAGGATG CCTTAAGGTG ATGAGAGGTG AGGGTGCATG AAGAATAATG 60
AGCACAGGGA AGAGAGAAGC AGGACAAAGT AGCAGATAAA ATGCCGGCAA AGCACAGATG 120
ANTGTTTTCA AGAAGCTCTT GTATTNTNT GCACAGTGTA AATATCCTTG CTATTTCAGG 180
ATGGCGGCTG GCCTGCTCAG TAACATACAT GTTCCAAATA AAGATTTTGC ATGAAAGTAC 240
CTAAA 245

SEQ ID NO:2374

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02738

SEQUENCE DESCRIPTION:

GATCTGACTG CCTCCTTTCT CTGGCCTCTN CCCCCTNCCC TCTTCTCTTC AGCTAGGCTA 60
GCTGTTTTGG AGTAGAATGG CAACTAATTC TAATTTTAAT TTATTAAATA TTTGGGGTTT 120

TGGTTTTAAA GCCAGAATTA CGGCTAGCAC CTAGCATTTT AGCAGAGGGA CCATTTTAGA 180
CCAAAATGTA CTGTTAATGG GTTTTTTTTT AAAATTAAAN GATTAAATAA A 231

SEQ ID NO:2375

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02739

SEQUENCE DESCRIPTION:

GATCCACTGT GAGCACCAAC CTGCTGCAGT CTCTTGGGCC CCTGCTGGCA GCTCTGCCAC 60
GTCACCGNCT GCCTGGCTCC CACACAGCCA TGCATTGTCA CTCTGCCTCC GGGACCCNAG 120
CTTNGGAGCN NNTGGGTCTG CCAGGTCCCA CCTCCTCTGT CCCCNATGCC ACAACCTGGG 180
CTCCTGGCTA CAGCAGGGNT CCAGGGACTN CAAATAAATG TTCAGTGACT GGCAAA 236

SEQ ID NO:2376

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02740

SEQUENCE DESCRIPTION:

GATCGGTCAC ACAAGCTGTT CCACGATAAT TTTGTNTCA NAAGGGGAGN CTGACTACCA 60
GGACCACTGG CCCCACTTCC AGCCCCTCCA TTCTNAGTAC ACTTCAGAGG GCTCTGGCAG 120
GGTGAGGGGG TCTTGNCCGT GCCACAGAGA GTAAAGGTCT AGCACACCCA TTGTGGAGAT 180
ATTTTCATGGG GACANCCAG TGACTTCACT TTGAAGTAAA GTGGGATTTT CCAAA 235

SEQ ID NO:2377

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02741

SEQUENCE DESCRIPTION:

GATCGNAGGC TACCCTGGCT CAGTNACCAG CTGCTCACTG TGTCCTTCTG TGGTCTCAGG 60
AGCTGCAGTT GTTGCTGTTG TATGAATAGA CGATAGTNAA TTAGACTGGA TGTGTCTGTA 120
CTGGCAGTNA TTTTCCAAC TNCCTCTGTAT AAGCAATACA TTTGTAAATC ATGGGAATGT 180
ATTTAATGGT AATTGCCTGT GGTGGTTGTA TCATGATTTA NTNNTATNAT GAGCTTTTGG 240
CTTTNTNTAT NTN 253

SEQ ID NO:2378

LENGTH:232

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02742

SEQUENCE DESCRIPTION:

GATCTGGGGT CCCAGTGTCA TTGGTGAAGG CCTTGGGATT CGAGGCAGCT GAGTCCTCAC 60
TGACCAAGGA TGCCCTTGTG CTTACTCCAG CCTCCTTGTG GAAACCCAGC TCTCCTGTCT 120

CCCA GTGAAG ACTTGGATGG CAGCCATCAG GGAAGGCTGG GTCCCAGCTG GGAGTATGGG 180
TGTGAGCTCT ATAGACCATC CCTCTCTGCA ATCAATAAAC ACTTGCCTGA AA 232

SEQ ID NO:2379

LENGTH:232

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02743

SEQUENCE DESCRIPTION:

GATCTCTGAA AAGNAGGTTT CAGCCACGAG GCAGCTGNTC CCAGGACACT GAGGCCAAGA 60
GAAATGTAAC AGAGCCACAG CTCCACAGGC CTGCACTCGG AGTCTGGGGC CTCTGCAGAG 120
CCAGCAAGGG GAAAAGTATA ATCTGGGGGA CCTTCAACCA CTAAGCCTCT TGTCAGAGCC 180
CTCAGGCAGG CAGATGTGTC ACCCAAATAA ACAGTGATAT TGTCTCCAGA AA 232

SEQ ID NO:2380

LENGTH:232

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02744

SEQUENCE DESCRIPTION:

GATCTNAGCT GGACAGAGGA GGAGGAAGAG GAGGAAGCAA TGGGGGAATA GTGACACCAG 60
ACAGTTGATG TCTAGATAGG ACCTCAATNA TTCCNTTAGA ATCTNAGATA CCAGGATATT 120
GTTGGCCATG TGGCATCATT GAGCAGCAGG AGGCTGAAGG AGGNGAGAAC AAAATTGTCC 180
AAACCATGCT GTTTTTTTCC CTAAATAAAA TCTTGATTC TTCAGTTTCA AA 232

SEQ ID NO:2381

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02745

SEQUENCE DESCRIPTION:

GATCTANGGA ACCAAACGGA AGGTTTTGAG GTGATGTAGG TCTTTCACAG TTAGCTTTGG 60
GGAATACAGA ATACTCAAAT AAAGTGCTTT GTTATTATTT CAGAGGGAAT GCGATTGAA 120
ATGTTACAAC AGAGATTTCT TGGTGGTAGC TATTTNGGTA AAGGGTATAT GGNTATTTTT 180
CTGTACATGT GAAATTATAT AGANNTAAAA GTTATATANA TTACATTGGC CAGAAA 236

SEQ ID NO:2382

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02746

SEQUENCE DESCRIPTION:

GATCAAGTTT AAGTCAGTCA GTTAAGGGGA GGAGAAGGAG AGGTTATACN TTCAGGGGGC 60
TACCAGACAG TGTTCTCAAC TTGGTTAAGG AGGAAGAAAA CCCAGTCAAT GAAATTCAAT 120
GAAATTCTTG GAAACTTCCA TTAAGTGTGT AGATTGAGCA GGTAGTAATT GCATGCAGTT 180

TGTACATTAG TGCATTAAAA GATGAATTAT TGAGTNCTTA AAGATTAAA

229

SEQ ID NO:2383

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02747

SEQUENCE DESCRIPTION:

GATCTGATTT CAGATTTTTC CTGTATCTTT TTTACATACA TCAGAAAAAG AAATGTTTAC 60
TATATTTTGG GTTCCATTNA TGATTGTTTT AAGCATTTGA CGNATAAGGA AAACAACTAA 120
TTAANTCAAT TAGAAAAGCA ACATAAAATT AANTGATATT TAGGAAATCA GTTATATGTG 180
AGCTTGGGTA TTCAAATGTC ACAANTAAAA GGCNTANACC CATNAAA 227

SEQ ID NO:2384

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02749

SEQUENCE DESCRIPTION:

GATCAATNA CCTGTGAAGG AATATTTTGC CTTTCATCCTA GCTGCTGGGG AAGCGGGGAG 60
AGGGGTCAGG NAGGCTAATG GTTGCTTTCC TGAATGTTTC TGGGGTACCA ATACGAGTNC 120
CCATAGGGNC TGCTCCCTCA AAAAGGGAGG GGACAGATGG GNAGCTTTTN TNACCTATTC 180
AAGGAATACG TGCCTTTTCC TTAAANNCTT TCATTGATTG AAA 223

SEQ ID NO:2385

LENGTH:221

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02750

SEQUENCE DESCRIPTION:

GATCAGGGTT TNGGGTCTGT GTTCTTTCTA CCGTCAGCAC CTGTGTGGTC AATTCTGGAC 60
ACTTCCCAGA GAAGTCTTTG AGTAGAGAAT CCTACTCAA TTTCACTGTA TATNTTAAGC 120
ATTCTCTCC TNTCCNTTG CCTNCCCTGT TGCCTTNTCT TCCCCTGATT TCTCCTCTGG 180
TCATCTNCTC TCCCTNCTGC GTGTAAGCCA TGGGAAAGGG N 221

SEQ ID NO:2386

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02751

SEQUENCE DESCRIPTION:

GATCATGAAA ACAATGTAGG TAAAGTAAAG TATGTATTG TCTGTGCTTG AAAAATATTG 60
TAAATGTGA TGTATTGGA ATATATTTG TGGTTTGTCT AATATTTATA AACACAACCTC 120
GGGGTGAATT CACANTGAGT TTATTTTATT GAAATACTAG AGATATGGGG GCCATGTTAC 180
TGTGCTTGGN GCCTTACCNT TTGTATAGTG AAATTTGCAN 220

00893

SEQ ID NO:2387

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02752

SEQUENCE DESCRIPTION:

GATCCGCCTG CCTTGGCCTC CCGAAGTGCT GGAATTACAG GCATGAGCCA CTGCTCCTGG 60
CCTAAGATGT TTTTAAATA ATGTTTTTAA CTAAATTTTA AGAATGTTTT TAACTAAAGT 120
TATTTATATT TGGAATAATT CGTTAATGAT TTGTGTCATT TCCCAACCC CTTTTAAAT 180
TTGTGAATTT GAGGACTGGA TTTAAAGATA AAAAGTTAAA 220

SEQ ID NO:2388

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02753

SEQUENCE DESCRIPTION:

GATCTAATTA ATAGCTGACC TCCCAAATCT GACAGGATAG ACACTGCCAC GTGCAAGGCC 60
TGCCAGCCCC TCAGACGCAC AAAATGCGTA AAACAAATGC ATCCTTTCCT GGCTAAGCGA 120
GTATTACTCT CTTAGCCCTG CACCAAACCT CCAATCTAGC CACATTTAAC TNTTCATTTT 180
TTAGACCCGC AGAGTGTCTT CCTGCCTCTG AGCTGTGAGT GTTGTTCCCT TTGCCCCGGA 240
TGCTCTTGTT TTTAATACCA GTTCAAGTCC CACTCTCTCA GTGAAGCACT CCCTTCCCCA 300
CTNATAGCCT TTAGTGAACC CTCGTTTCTT GCTTCTTTN 339

SEQ ID NO:2389

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02754

SEQUENCE DESCRIPTION:

GATCCATGTG CAGTAATGCC TGGTGGCTCC AGGTCTGCCC CGCCGTCCTG TGGGGCTGTG 60
AGCTTTCCCA GCCTCCTGCC CGTGTGTTGT AATATCATTC TGTCCTCAGC TGCATTTCCA 120
GCCAGGCTG TTTGGCGCTG CCCAGGAATG GTATNAATTC CCCTGTTTCT CTTGTAGCCA 180
GTTACTAGAA TAAAATCATC TACTTTAAAA TCTTTCAA 219

SEQ ID NO:2390

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02755

SEQUENCE DESCRIPTION:

GATCTTGACC GGGAAAAGGG ACTTGAGAGA ACCTTCTAGG ATAATTTNAT TTCTTGATTA 60
GGTGGTGGTT ACATTTGTAA AAATCATCGA CCTCTAAATT TAGGGTTTGT GCCCTTCACA 120
TACCTTGTG TATGCATTTT GCCACTTGTT TTTTCAAAGC AATGAAAAAG TATCACTGCA 180

ATTAGGTTTT AAATAAATTT GTTTCGTAA CATGTCAAA

219

SEQ ID NO:2391

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02756

SEQUENCE DESCRIPTION:

GATCTGGAAT CGGGGTCAGC GGGGCTACAG TCCTTCCAGG GGCTNTGGGG CAGCTCCCAG 60
CCTCTTCCCA TGCTGGTGGC CACCGTGTCC CTTGCTGCGG CTGCATCTTC CAGTCTCTCC 120
TCCGTCTTCC AGTGGCCGCT CTCTTTATAA GAACCCTGGT CATTGAATTT AAGGCCAC 180
CCAAGTCCAG AATGACCTCG CAAGACCCTT AACTCAAA 218

SEQ ID NO:2392

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02758

SEQUENCE DESCRIPTION:

GATCCATTTT TAATGGTTCA TTTCCTTTAT GGTCATATAA CTGCACAGCT GAAGATGAAA 60
GGGGAAAATA AATGAAAATT TTACTTTTCG ATGCCAATGA TACATTGCAC TAAACTGATG 120
GAAGAAGTTA TCCAAAGTAC TGTATAACAT CTTGTTTATT ATTTAATGTT TTCTAAAATA 180
AAAAATGTTA GTGGTTTTCC AAATGGCCTA ATAAAAAN 217

SEQ ID NO:2393

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02760

SEQUENCE DESCRIPTION:

GATCAGAGGA ACTTTNAGGT GTCTGCCGGC TAACATTGTG TCATTCTGG AGTCCACAGT 60
ACACGTCCCC TGCCTCAACA GGCACAGCTC TCACAAAGCT CTC AAGCAT GGAAGTGGGA 120
GTTGTGTTGT ACTTCATGGC ACTCTGATGC CTGCTGTCTC AGTGTGTTGGT TATTATGCAA 180
ACAAGTAATG TTTGAAATAT ATAATAGCAC TGGAAA 216

SEQ ID NO:2394

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02761

SEQUENCE DESCRIPTION:

GATCCATTTC TACCTGCATT TCCCAGAGGA CTAGCAGGAG GCAGCCTTGA GAAACCGGCA 60
GTTCCCAAGC CAGCGCTGG CTGTTCTCTC ATTGTCACTG CCTCTCCCC AACCTCTCCT 120
CTAACCCACT AGAGATTGCC TGTGNCCTGC CTCTTGCCCT TTGTAGAATG CAGCTCTGGC 180
CCTCAATAAA TACTTCCTGC ATTCNNCTGN NNAAN 215

00895

SEQ ID NO:2395

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02762

SEQUENCE DESCRIPTION:

GATCTAAATG TAAAAGCAAA TGAAAAATGC ATGTNTTTTT NCCTGTCAAA CATGTATACC 60
CTTATGTATA GAGACCAGTA GTCACGTATG GTGACTGAAA CAGGATTATG TAATCCCTAA 120
AAAGCAGAAT ATGTAAAANT CACATGTATG CGTTTGGTTT AGGAATGTNC TTTTGTACTT 180
CCTTGAAT AAAGGTGTGT TTGGTATTCT GAAA 214

SEQ ID NO:2396

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02764

SEQUENCE DESCRIPTION:

GATCCAGAAA TTCAAACCTC GAGAGCAGAT GGAACGACAT CTAAATCTNT GAATAAGCA 60
GCAGGCCTGT CCTGGCCGGT TGGCTTGACT CTCTCCTGTC AGAATGCAAC CTGGCTTTAT 120
GCACCTAGAT GTCCCAGCA CCCAGTTCTG AGCCAGGCAC ATCAAATGTC AAGGAATTGA 180
CTGAACGAAC TAAGAGCTCC TGGATGGGTC CN 212

SEQ ID NO:2397

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02765

SEQUENCE DESCRIPTION:

GATCTATTAA AGTGTCAACT TTGCATTATA GAACTGAACA TGAAGTAAAT TGAGTGTTTC 60
TGAGTTTNT ATAGAAAATT TATGCTACCT CTCATCTTTT CACATACAAA TAAGCAACTT 120
TTAATGAAGG CTTAGGGTGN AAATTTTAAT TTTAGCACTT TACATTACAT GATGAATGGT 180
GAATATTAAA GGACTTTGAA CATTTTAATA AA 212

SEQ ID NO:2398

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02767

SEQUENCE DESCRIPTION:

GATCGAGAAG CTGCTCAATT ATGCACCCCT GGAGAAGTGA CCACGCTGAA ACCCACCAC 60
CCGCTGTGCT GACCATGGGC CCTGAGCGTC CTACCCCGAA TTCACGAGGC TGAGGCATCC 120
GGGAGCTGGC GTAATGCCTG GCCGCAGTGT GTGTGTATCC CATACCCAC TCTGGAAGGA 180
ACCATCCAGT AAAGGTCTTT CAGAACCCT AAA 213

SEQ ID NO:2399

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02768

SEQUENCE DESCRIPTION:

GATCAGAGAT GCACCACCAA GCCAAGGGAA CCTGTGTCCG GTATTCGATA CTGCGACTTT 60
CTGCCTGGAG TGTATGACTG CACATGACTC GGGGGTGGGG AAAGGGGTCG GCTGACCATG 120
CTCATCTGCT GGTCCGTGGG ACGGTGCCCC AAGCCAGAGG CTGGGTTCAT TTGTGTAACG 180
ACAATAAACG GTAATTGTCA TTTCGGGCAA A 211

SEQ ID NO:2400

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02769

SEQUENCE DESCRIPTION:

GATCAGACAC CCCTTCACGT GTATCCCCAC ACAAATGCAA GCTCACCAAG GTCCCCTCTC 60
AGTCCCCTTC CCTACACCCT GACCTGGCCA CTGCCGNACA CCCACCCAGA GCACGCCACC 120
CGCCATGGGA GTGTGCTCAG GAGTCGCGGG CAGCGTGGAC ATCTGTCCCA GAGGGGGCAG 180
AATCTCCAAT AGAGGACTGA GNACTGCTAA A 211

SEQ ID NO:2401

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02770

SEQUENCE DESCRIPTION:

GATCACCTAC TTA CTGTATT CTACATTATT ATATGNCATA GTATAATGAG ACAATATCAA 60
AAGTAAACAT GTAATGACAA TACATACTAA CATTCTTGTA GGAGTGGTA GAGAAGCTGA 120
TGCCTNGNTT CTACATTCTG TCATTAGCTA TTATCNTCTA ACGGTTTCAGT GTATCCTTAC 180
AGGAATAAAA GCAGCATNTG GNTAAA 206

SEQ ID NO:2402

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02771

SEQUENCE DESCRIPTION:

GATCGAATGA AGGATTCAAA ATTAACCACT CCAAGGGGGG ATTGAAGGAA GAACCACTCT 60
TAATGGACAA AAAGAAAGAA AGGGGAGGGA GTAACAGGGA TATNAGCTCT AGCCGCCCAA 120
GCTAGCAATG GCAACCCTTC TGGGTCCCCT TCCAGCATGT GGAAGCTTC CTTTCGCTTC 180
ATTCAATAAA CAGCTGCTGC TCAAA 205

SEQ ID NO:2403

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02772

SEQUENCE DESCRIPTION:

GATCTATAGA CATNAGGAAG GGAGTNAGAC GGCTCCTCCA CCATCCTCAG CCAGTGCAAC 60
CCATTCCCTC TNCTTCTCTC TCTCTCTCTC TCTCTCCCTC CCTCTCCTTC CCTACCCTCT 120
CACCATCTTT NTTGGCCTCT CTNAGGGTCT CTCTGTGCAT CTNTTTAGGA ATCTNGCTCT 180
CACTCTCTAC GTAGCCACTC TCCTTCCCN ATTTNTGNGT CCACCCNN 228

SEQ ID NO:2404

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02773

SEQUENCE DESCRIPTION:

GATCTAGCTA GGGCTTTGTC TNTTCATCTT TGTGCATAAC TTACCTGTTA CCAGTATAGG 60
TGGGATATAC ATNTATCTTG CAGGAAATTC CCCAAAGCTC AGAGTCCAGT TCCTTCCATA 120
AAACAGGCTG GACAAATGAC CACTATGTTA GACCCCCCGG NTCGACTTCA GGGGTCAGTG 180
TTCCTGTCCC AAACCCNCAC ACAGAATNCT CTGNCTGNGG TTCATGTNGA AACTGAGCAA 240
AAACTANAGT ATCTNTCAAN ANGTGTAACN TGN 273

SEQ ID NO:2405

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02774

SEQUENCE DESCRIPTION:

GATCCACCTC ATATGTGAGT CCGTCCAAAA GATGTTACTG CTCTGGGTGG GCCAGTGTTT 60
TATATCGGTT ATACTAATT TCATTTAAAG TATTTATTCT AAAATGCCTC TGAGAAACAG 120
TAAAAAATAA AAACAACAAG TTGTCTAAAA TGCAACAGCT TTTATAGTAA ATGTACATTT 180
ATAAATAAAA TACTCAAATC AAA 203

SEQ ID NO:2406

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02775

SEQUENCE DESCRIPTION:

GATCTCTGAT GGATTTGTTG ACTCCTCTGT GGGAGAAAGG CTTGGTCTAC TGCAGGTGTT 60
AACGCTAAGC CAGGCTGGAG CTGCGGACGT NAGTTTCCTC AGCNCCCCGC TGTTCCGCTT 120
GAACGTNACC TCGACGTCTG CTCTCCCTT CCCTTTAGCT GACAATGTGA CAGTNCTTGA 180
ATAAAAGTNA GTCTGACAGG AAA 203

SEQ ID NO:2407

00898

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02776

SEQUENCE DESCRIPTION:

GATCTGAATG TGAATTTCTA ATTGTATCAG ACGTTAATGT TTAAAGCTA TAACAAAGTT 60
TAAATTTCT ACTTTTGTT TTNATTTAT TTAACTGTT CTTTATCTA TTAAATTGTT 120
GTATGTGGAT GGGGAAGTTT TGTTTCTCCT CTTAGCATTT GTTCTATAA CCAGAAATAA 180
AATTCTATAT TAAAGAAATG ACAA 205

SEQ ID NO:2408

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02777

SEQUENCE DESCRIPTION:

GATCCCAATC TGAGAAAAGG CAAAAGAATG GCTACTTTTT TCTATGCTGG NGTATTTTCT 60
AATAATCCTG CTTGACCCTT ATCTGACCTC TTTGGAACT ATAACATAGC TGTCACAGTA 120
TAGTCACAAT CCACAAATGA TGCAGGTGCA AATGGTTTAT AGCCCTGTGA AGTCTTAA 180
GTTTAGAGGC TAACTTACAG N 201

SEQ ID NO:2409

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02778

SEQUENCE DESCRIPTION:

GATCTTTAAC TGCCTGCTGA TAAGATATTG GGCCAACCTGA AAATAGAAAT TGTTCTTTCT 60
TAGAAATATT TTAATGCTAA CTTGTTAGTT TTCCTCAGAA AGCTAGTATT TGAAGCCATT 120
CGAGTTTAAG ATNCTCTAAT TTCAATAAAA TAGCTTCAA ATATTTAAAA TGTAATAAAA 180
TATATGTTG AACTCTAAA 200

SEQ ID NO:2410

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02779

SEQUENCE DESCRIPTION:

GATCAAAACG CTCCATCTTT TTACAGTGGC ATAGGAAGAC GGCAAAATTCCTAAAGTG 60
CAATAGATT TCAAGTGAT TGTGCCTTGT TCTAAACTT TTATTAAGTA GGTGCACTTG 120
ACAGTATTGA GGTCANNNNN TATGGTGCTA TTTCANTNAG TCTAGGTTTA GGCCCTTGTA 180
CATNTTGCCC ATAACNN 198

SEQ ID NO:2411

LENGTH:198

00899

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02780

SEQUENCE DESCRIPTION:

GATCTGCCCC TTGCTGAAAC TTCAGTACTT AAGTCCCCTA TTATNATTGT ATGGCAATCT 60
ATCTGTCCAC TCAGAAGTTA TTATATTTGT TTTATATGAT TGAGCACTTC TGTTTTGGGT 120
ATATATGTAT TTACAATNAC TATAACCTCT TGCTGAATTA ACCCCTNTTA CCATTATGTA 180
ATAAACTTAT TTCCCAAA 198

SEQ ID NO:2412

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02781

SEQUENCE DESCRIPTION:

GATCTTGAAT CACTTGACAG TGTTTGTTNG AATTGTGTTN GTTTTTNCCT TTGATGGGCT 60
TAAAAGAAAT NATCCAAAGG GAGAAAGAGC AGTATGCCAC TTCTTAAAC AGAACAAAAC 120
AAAAAAGAA AATTGGGCTC TTTCTAATC CAAAGGGTAT ATTNACAGCA TGCTTGACTT 180
TACCAATNCT GATGACAN 198

SEQ ID NO:2413

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02782

SEQUENCE DESCRIPTION:

GATCCAAAGT AACTAAACAG GAGCCCACAA GACGGTCTGC CAGATTGTCA GCGAAACCTG 60
CTCCACCAAA ACCTGAACCC AAACCAAGAA AAACATCTGC TAAGAAAGAA CCTGGAGCAA 120
AGATTAGCAG AGGTGCTAAA GGGAAGAAGG AGGAAAAGCA GGAAGCTGGA AAGGANGGCA 180
CAGAAAAC TGTTCTGTAGA TAACGTGGGA GAATGANTTG TCATGAAAAT TTGGTGGTTG 240
ATTTTTTTGT NTGTCTTGGG ACAACTTTTA AANGCTATTT TTNCCANGTN TTTTNGTNN 300
TTGGTTTTTT TTTTAGGGNT CTNCTTGTG GCATNCGGNA GTTTTTANG GTTTGGNCN 359

SEQ ID NO:2414

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02783

SEQUENCE DESCRIPTION:

GATCCCAGGG GTGCACATGG GCCCCTTGGG TGTCTGAACA GAAGGGCATG GNAGGAAGGG 60
CTGCACCCCT GCAGTCTTAC TCTGCTGGTG TAGCGGGCAG CTGCCCCTC CCACCCACC 120
CTGCACCGCG GGCTCCTNAG TCGGCAGATT AAGCATTTNA TAAATTGTAT TTAAATACA 180
TGTTTTAAAC TTGTCAAA 198

SEQ ID NO:2415

00900

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02785

SEQUENCE DESCRIPTION:

GATCCCATCC ATCAGCTCCC TTTTCTTTT CCCTTGAAC GTTCTGGCCT CAGACCAACT 60
CTCTCCNNNN NTAATCTCTC TCCTGTATAA CCCCACCTTG CCAAGCTTTC TTCTACAACC 120
AGAGCCCCC ACAATGATGA TTAAACACCT GACACATCTT GCANAAA 167

SEQ ID NO:2416

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02786

SEQUENCE DESCRIPTION:

GATCTGTGAT TGGNTGGTTA ATGGGAAACG GTTTTTNNCT TTGGCTGCAG GTGTTCTGCT 60
GATATCAACA GCTTCCCTAT TTTNAATGCA GAAAACAGGG TCTGGGACAT TAGTCGTTAT 120
ATTNACTTG AAAAGAAAGA AACCAAGTGC GCTTTGCAAT ATTTATTACA CAAAGAACTT 180
GCTGCTGCAT TCTAAA 196

SEQ ID NO:2417

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02787

SEQUENCE DESCRIPTION:

GATCACAGAT TTCCCTGCCA GGGTGTCTGT GGTTATCAGC TGCAGGCTCA GCTNNGGTCG 60
GCCGNTTCAC ACAAGCCACT CTGTACCACG TGCCCTACCT TAGTGACGGG AGTAAGGAGC 120
TTCCTTCCCC TCCATGTCAT TCCTNCCTGT TCCNTNCATT CCCCAACAGC AAATAAACT 180
GTTGAATGCT CAAA 194

SEQ ID NO:2418

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02788

SEQUENCE DESCRIPTION:

GATCTTCTTA CGCACAAAC AAACGTCAGT TAATGTTCCA TCCATGCTGC TTAAAGAGCA 60
TTCCTGTCCT AGTAAAATGG GCAAGTCCCT CTACCCCCCA CCCTCACCTG GTATGCTTAC 120
ATTAATAGCT AAAGTCAATC CTGTAATGAA ATAAAGCAAG TGGTAGCTGT CTGGTAGCCT 180
CCACTACTGC AAA 193

SEQ ID NO:2419

LENGTH:193

TYPE:nucleic acid

00901

TOPOLOGY:linear

CLONE:HUMGS02789

SEQUENCE DESCRIPTION:

GATCAAAACC CAGCAGAGTG CAAGCAGCAG TGAAGCAGGA TGTATGTGGA CTTGAGGATA 60
ACCTGCACTG GTCTACCTTC TGCTTCCCTG GAAAGGATGA ATTTACATCA TTTGACAAGC 120
CTATTTTCAA GTTATTTGTT GTTTGTTTGC TTGTTTTNT TTTTGCAGCT AAAATAAAAA 180
TTTCAAATAC AAA 193

SEQ ID NO:2420

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02790

SEQUENCE DESCRIPTION:

GATCAGACCT CAATAATTTT ATACTGTAAT AAGCTCTTTG AATGTNTATA TTATTATTTT 60
TNACAATCAT TTCATTTTGT ATTTAATATC AATGGACTGA GTCTGATTCA GAAAATAATT 120
GTAATGTTCA TATTCAATAT CTTACAGTGA TACAGTTTGT TATTACATA TAAATATACC 180
GACATGACCA AA 192

SEQ ID NO:2421

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02791

SEQUENCE DESCRIPTION:

GATCAGGGTT TCAAGAATGA CTGCAGTGGG TTTTGAAAAC AGACTTATCA TTATTGATTT 60
GAGGTTTCCC AGAGATATAG TTCACAGTTA ATTGTTGCGC TCTAATACAA CTGACCATTT 120
AAAATTGAAC AAGTTTATTG TTTTGTAACA ATGTCAGTTG TTAAACCTTG NCATTTCAAT 180
TAAACATGA NTTGTAGTTA TAACTCANTG CAANTNCAAC AGTTGTATTT GGNGTTAANT 240
TATTTTCACA CGTNNCTTTN TTTTCATGGAN NNCCCN 276

SEQ ID NO:2422

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02792

SEQUENCE DESCRIPTION:

GATCTTTTAT TTTCTCATT TTTATAACTT CAGACTTGGG CCCCTGTTC TTTCTTTCCC 60
ATTA ACTTGA GTGACCTGTG TGAGAGACAG ACAGATGCCC CACGAGGATG GCTGGACAAG 120
GACTTTTACT TTTTATTACA TAAAAATATT AAAAAATAAA TAAAAAAAT AAAATTTTAA 180
ACTAACTTAA A 191

SEQ ID NO:2423

LENGTH:189

TYPE:nucleic acid

00902

TOPOLOGY:linear

CLONE:HUMGS02793

SEQUENCE DESCRIPTION:

GATCGGAATG CGGGGTCGAG AGCTGATGGG CGGCATTGGG AAAACCATGA TGCAGAGTGG 60
CGGCACCTTT GGCACATTCA TGGCCATTGG GATGGGCATC CGATGCTAAC CATGGTTGCC 120
AACTACATCT GTCCCTNCCC ATCAATCCCA GCCCATGTAC TAATAAAAGA AAGTCTTTGA 180
GTAGTCAAA 189

SEQ ID NO:2424

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02794

SEQUENCE DESCRIPTION:

GATCGAGACC ATCCTGGCTA AAACGCCTGG AATGCAGTGG CACAATCACT GCTCACTGCA 60
GCCTTGACCG TNTGGACTCA AGTAATTCTC TACTTCAAC CTCCCAAGTA GCTGGGACTA 120
CAGTCATGCA CCATCATGCC TATAAAGATA ATTTAATTTA TAATAAATNA TTTATACAAA 180
CAATAAA 187

SEQ ID NO:2425

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02795

SEQUENCE DESCRIPTION:

GATCAATCGT GCATCCTNAG TGAACCTCTG TTGTCCTCAA GCATGGTCTN NNTACTTGTG 60
AACTATGGTG TTCAGTTTGT CCTCTGTTAG AAATTCACAC TGTTGTTGTA ATNATGTGGA 120
ACTCCTCTAA AANTTACAGT ATTGTCTGTG AAGGTATCTA TACTAATAAA AAAGCATGTG 180
TAGNAAA 187

SEQ ID NO:2426

LENGTH:185

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02796

SEQUENCE DESCRIPTION:

GATCNCGTTT TNAACCCGNT CCTGCCCCAC CTGCCCTATA GTTATGGCCT GTGTTCTGCT 60
CTCCTGGTCC CAGTGCACCG TCTGCTCTGT GAACTCCTCC CACCAGGCC TTCTTACCCC 120
ACGCGTGTCT GTCCCNCTCG TTCTGTAGCG GGNGGTACAT AATAAAACAA TGGNGTGGNG 180
ACAAA 185

SEQ ID NO:2427

LENGTH:181

TYPE:nucleic acid

TOPOLOGY:linear

00903

CLONE:HUMGS02797

SEQUENCE DESCRIPTION:

GATCTATGTT TTCTGAAAAT AATTGGTTAA TGGAAGTTAT CTAATATATT TNAACTGTTC 60
CTGTAAAAA CAATAGGCTT CAAGATGACA TAACACCAAA TCAAAAATNA CCAAAGGAAT 120
CATTTTGTTC GTTAGATTG TAATTTAGCA TCATTGGCAA TAAATCTACT CAAACGTTAA 180
A 181

SEQ ID NO:2428

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02798

SEQUENCE DESCRIPTION:

GATCCCAAAG GGGTTGGAGG CAGGGAATAT TTGAAAATTC AGACTGGAAT TCCAGGCCAA 60
AAGCTCAAGA CCACCAGCCT CTCCTCCTGC CTGGAAAAAT AAGCCTTTGT GAAAGACTGA 120
TTTACCATGT ACAATTGTGA TTGTGAACGT TGTTGAGTAA ACCTCCAGAC TTTCTCTAAA 180

SEQ ID NO:2429

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02799

SEQUENCE DESCRIPTION:

GATCATAAGT NAAAAATGTA TTTAATATAC CTAACCTACC AAACATCATA GCTTAGCCTA 60
GCCTGCCTTA AACATGCTCA GAACACTTAC ATTAGCCTAC AGTGGGCAAA ACTATCCAAC 120
ACAAAATCTA TATTGTAATA AAGTTATAAA GANTTTTGAA TAAAANTTCA ATATTTGANG 180
TACAAA 186

SEQ ID NO:2430

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02800

SEQUENCE DESCRIPTION:

GATCTGGTGG AGGGAAGTGA AGATGAAGGC CTCTCAGGCA CCATGGATGG NATGGGTGTG 60
TGTNAAGGGG GCAGGGTCCC CAGGAGCTGC CCCAGGTCTG GCTNGACAGT TGCACGNAA 120
GTCCTGTTG TAAACTCAAC GTTCCACGN CTTTCCATT AAACTTTACC CCAAATCAAA 180

SEQ ID NO:2431

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02801

SEQUENCE DESCRIPTION:

GATCTATTTT TCCTAAACA TTCCCCTCCC CACTCCTCTC CCACAGAGTG CTNNNTGTT 60

CCAGGCCCTC CAGTGGGCTG ATGCTGGGAC CCTTAGGATG GGGCTCCCAG CTCCTTTCTC 120
CTGTGAATNG AGGCAGAGAC CTCCAATAAA GTGCCTTCTG GGCTTTTNC T AACCTTTAAA 180

SEQ ID NO:2432

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02802

SEQUENCE DESCRIPTION:

GATCTTCACC AATGGCAAGT GGAATGACAG GGCTTGTGGA GAAAAGCANN TTGTGGTCTG 60
CGAGTTCTGA GCCAACTGGG GTGGGTGGGG CAGTGCTTGG CCCAGGAGTT TGGCCAGAAG 120
TCAAGGCTTA GACCCTCATG CTGCCAATAT CCTAATAAAA AGGTGACCAT CTGTGCAAA 179

SEQ ID NO:2433

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02803

SEQUENCE DESCRIPTION:

GATCTAAAAA TTCAATGCAA ATATCTTTTA TTTGGTAGTT TTGTCTACAT ATTTNATGCT 60
CTAGCATGTG CAATATATCT TTGTAAAGCA CGATGATACA AATCTGGTGC CAGTGTTATA 120
TTTNGCATAA CATATTTGTA ACAGCATAAA ATATTGTTG ATGATTTTCTAG TGGGATTTTG 180
TCTATAATGT TTTCTTATGT AAATNGGAGT TGAATGACTC TGGTAAATGT CATGACTGTA 240
AAANTGGGGA AANTGACTTT NAGTTCAGTG AAN 273

SEQ ID NO:2434

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02804

SEQUENCE DESCRIPTION:

GATCCAAACT AATTTTACAT TTAAAAAAA AGTTAAACTA AACTTCTTTA CTGCTGATAT 60
GTTTCCTGTA TTCTAGAAAA ATTTTNACAC TTTCACATTA TTTTGTACA CTTTCCCAT 120
GTAAAGGGAT GATGGCTTTT ATAAATNTGT ATTCATTAAT TGTTACTTTA AAAATAAA 178

SEQ ID NO:2435

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02805

SEQUENCE DESCRIPTION:

GATCTAAAAT AAATATTGTT AAAAGCATT CCTCTAGGGA ATGGGATTTA GATTTAAAAA 60
GGGTGGGATG GGAAACTGTG TTTTTCATTT TAAGTCCTTC TGTACTANNT AATTTGTNAC 120
CTTGTGCATG TATTACTTTG AAAAAATTTT TAATAAACCC AAATAAAANT CTAAAA 176

SEQ ID NO:2436

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02806

SEQUENCE DESCRIPTION:

GATCANCCCT CAAGGGCACA TGCCAAGGGC AGAGCAGCCC ATNTAGACAG CTCGNAGGG 60
CATGGGGGTG TAGGGAGTTC GGGGTAGCTC CTCATTAAT AATTGTNGN TGAGTAAAGG 120
GGTGAGGCTC AGTGGCAGGT ACCTCTNCAA TNACAAGCTG CCNCCCCTCT ATGTN 175

SEQ ID NO:2437

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02807

SEQUENCE DESCRIPTION:

GATCGGCAGC AAGAGTAAAG ACACAGCTCC AGAGGCCAC ACTGTGGGGT CTGGGCCCTG 60
CCTTAGGCAG CCCCCCTCTT TGGCCCCCTC CTGTCAGGCC CAGGGCTTGG AGTGAAAGTN 120
ACTCTCAGGT GGTGGGGTGG GGAATGTGAA TAAACATGAT TTCTTGCCGG GCAA 175

SEQ ID NO:2438

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02808

SEQUENCE DESCRIPTION:

GATCCCTTCA CTGGCCCCCT CGGGAGNCCT GGGTTGGACT CAGGGNCTCC NCCAGCTGGG 60
GNGGNGGACC GCAGCACCTA TCTGAGCAGT TAGAGCGTCT TTTTTTCAG ATTGTGTACA 120
GTAGATTATT TATTTGTNA TTTTGAATA AAATTTATTT TATGGCTTAG GAAA 174

SEQ ID NO:2439

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02809

SEQUENCE DESCRIPTION:

GATCTTGTCT GAAATGCTAG TTTCTGACTA CAAAACTAC AGGACATAGT AGATATGCTC 60
AGTAGAGCTG CTAAAATAA TTCCCTTTTT TTTTCTGTTG AATTCTGTTA CAAAACCAGG 120
TCTGTGTAT AATAGAAANC ACACTTATGA ATAAAAATCT TAAAAATTA AA 172

SEQ ID NO:2440

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02810

00906

SEQUENCE DESCRIPTION:

GATCAATGTC CCTGGTTACC TATGTGTTTG AATTATCTTC GTGTTACAGG TGTTTAATGA 60
 TTTTNCCTCT TCTAGCTTAT TTGTATTTCA CCTGTTTTTC TTAAATNAA CATGGTTACA 120
 CTNTGTTTCA GCAACTGTAT AAATTAAACA CAGATNATTA CTACTGCTAA A 171

SEQ ID NO:2441

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02811

SEQUENCE DESCRIPTION:

GATCGTAAAA TTTAAGCAC TAAAAATTTT TTCATAACCT TTCATAATAA AGTTTAATAA 60
 TAGGTTTATT AACTGAATTT CATTAGTTTT TTTAAAGTGT TTTTGGTTTG TGTATATATA 120
 CATATACAAA TACAACATTT ACAATAAATA AAATACTTGA AATTCTCAAA 170

SEQ ID NO:2442

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02812

SEQUENCE DESCRIPTION:

GATCTACTTT GAATTCCACA CTCTCATTA TAAATTGANT AAAAGGGAAT ATTTTGGCAC 60
 CTGATATAAT CTGCCAGGCT ATGTGACAGT AGGAAGGAAT GGTTTCCCCT AACANGCCCA 120
 ATGCACTGGT CTGACTTTAT AAATNATTTA ATAAAATGAA CTATTATCAA ATAAAACGTA 180
 TGATTTCAGTC CTTAAA 196

SEQ ID NO:2443

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02813

SEQUENCE DESCRIPTION:

GATCAAATTT TTTTCTTGCA ATNATGTGAT GAGTTGCCAA ATAATTGANA TTATTTTAAA 60
 ATGTTTTGTT CATATTCTTG TTTTATAATT AAAATTTACA TTCAGTGTGT ATGGGTTTTT 120
 TTTTNATTTT NACTCTTAAT GTAAGGTGGA TATTNCTGTN ATTTTACATG GTTTCTTACT 180
 GAGATTTTAT ATATAANTNA TAAAANGTTT ACCAAA 216

SEQ ID NO:2444

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02814

SEQUENCE DESCRIPTION:

GATCGTTAAT GCCCTTGAAG TGGTTTTTGT GGGTGTGAAC AAATGGTGAG AATTTGAATT 60
 GGTCCCTCCT ATNATAGTAT TGAAATAAAG TCTACTTAAT TTATCAAGTC ATGTTTCATGC 120

CCTGATTTTA TATACTTGTA TCTATCAATA AACATTGTGA TACTTGATGT AAA 173

SEQ ID NO:2445

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02815

SEQUENCE DESCRIPTION:

GATCAGCTCC GTGGGGCTGG TTTTGGTCCA CAGCATAACA GGCACCTGCCT CCTTACCTGT 60
GAGGAATGCA AAATAAGCA TGGATTAAGT GAGAAGGGAG ACTCTCAGCC TTCAGCTTCC 120
TAAATTCTGT GTCTGTGACT TTCGAAGTTT TTAAACCTC TGAATTTGTA CACATTTAAA 180
ATTTCAAGTG TACTTTAAAA TAAATACTT CTAATGGAAC AAA 223

SEQ ID NO:2446

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02816

SEQUENCE DESCRIPTION:

GATCTGTAC TTTGTATAAA AACAAGAAAC GATTAGTTCA TTAACTTTT TCTTTACCTT 60
CTGGTAGTAA AAATAGATAA AATAATTCCG TNTCAACTAC TGTGTGTAAA AAGCCTGTAT 120
CATATGTAAC TGGGACTTTT GTAAATAAAT NTTTTGCGC TCTGCAA 168

SEQ ID NO:2447

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02817

SEQUENCE DESCRIPTION:

GATCATAAAA TGTATCTTTT CCATGGCCAA CAAGGNGCAT CTNTTATAAA TGCATAATAA 60
CCCAGTTNGT ATCAAAGGGT ATCGACTTAA GTGAAATTC AACATGCTGT TACTTTTTCC 120
TTTTAATGTA ATNCTGTTTT CCAAATAAAT GGGGGAGACA AATGAAA 168

SEQ ID NO:2448

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02818

SEQUENCE DESCRIPTION:

GATCTGTGCA ATAAAGTGTT TGCAGTCTTA TTATTCTCTA AGAAATTCCT TATGGACGTC 60
ATAATTGTTG TATATTGAAC AAAATATTTA TACTTATGCA GTTGCATAAC ATTGAAATAA 120
AAATTTAGCA TGAAA 135

SEQ ID NO:2449

LENGTH:167

00908

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02819

SEQUENCE DESCRIPTION:

GATCCTGCCA GAAAATTTCA AAGACAGTAG ATTGAAAAGG AAAGGCTTGG TAAAAAAGGT 60
TCAGGCATTC CTAGCCGAGT GTGACACAGT GGAGCAGAAC ATCTGCCAGG AGACTGNGCG 120
GCTGCAGTCT ACAAACTTTG CCCTGGCCGA GTGAGGTGTA GCAGCAN 167

SEQ ID NO:2450

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02820

SEQUENCE DESCRIPTION:

GATCAGNAGG CATCACTGAG GCCAGGAGCT CTGCCCATGA ACCTGTATCC CACGTACTCC 60
AACTTCCATT CCTCGCCCTG CCCCCGGAGC CGAGTCCTGT ATCAGCCCTT TATCCTCACA 120
CGCTTTTCTA CAATGGCATT CAATAAAGTG CACGTGTTTC TGGTAAA 167

SEQ ID NO:2451

LENGTH:413

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02821

SEQUENCE DESCRIPTION:

GATCCGGTTT CTTTTTGCTC GCCCCTGTTT TTTGTAGAAT CTCTTCATGC TTGACATACC 60
TACCAGTATT ATTCCCGACG ACACATATAC ATATGAGAAT ATACCTTATT TATTTTGTG 120
TAGGTGTCTG CCTTCACAAA TGTCATTGTC TACTCCTAGA AGAACCAAAT ACCTCAATTT 180
TTGTTTTTGA GTACTGTACT ATCCTGTAAA TATATCTTAA GCAGGTTTGT TTTCAGCACT 240
GATGGAAAAT ACCAGTGTTG GGTTTTTTTT TAGTTGCCAA CAGTTGTATG TTGCTGATT 300
ATTTATGACC TGAAATAATA TATTTNGTNC TTCTAAGANG ACATTTTGTT ACATAAGGGG 360
ATGGCCTTTT TTATACAANG GGAATAANAT TNTGGGCATT TCCTATGGAA AAA 413

SEQ ID NO:2452

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02822

SEQUENCE DESCRIPTION:

GATCTGTNAT TGGCATCTTG GTTCTACCTT TTATCAGATG TTGTTGCCTT GTGCAAATNA 60
CATTTTCTCT GAGTCTCCAT TTTCTCATTT ATAACATGCG GAGAATAATA CTTATATTTG 120
TGGTAGTAGT GTGAACATTA AAAAGATAAT GTATGTGAAG TACAAA 166

SEQ ID NO:2453

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02823

SEQUENCE DESCRIPTION:

GATCCATGCT AATATTGTAT TTTTNTTAA AACATAGCTT TCCTGTAATT TAAAGTGCTT 60
TTATGAAAAT ATTTGTAATT AATTATATAT AGTTGGAAAT AGCAGTAAGC TTTCCCATTA 120
TAATATATTT TGNTATACAA ATAAAATTG AACTGAAGTC TGAAA 165

SEQ ID NO:2454

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02824

SEQUENCE DESCRIPTION:

GATCTTGTTA GAAGGCAGTA GGTCTGGGGT GGGGCCTGAG ATTCTGCATT TCTAACCAGG 60
TCCTGGGAGA TGCTGATGCT ATCGAGCCAC AACCACACTT TGAGTAGCAA GCCTCTGGCC 120
TATCCTTANN NNTTGTAATA TTAAAATGCT GCCTCTCAGT CAAA 164

SEQ ID NO:2455

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02825

SEQUENCE DESCRIPTION:

GATCAATGCC AGATTTTNTT NTTGGGGTAA GTTAGCTGAA GTCATTTAAA GATGGAAAGG 60
TGGGAAAATN CTTTGATATT TGATGTCATT GTATCCACAT TTNTTGTAAG ACATATTGCA 120
TACCANTTAT AATNATATCA ATTAAAGTTG ATAAAAGCTT CAAA 164

SEQ ID NO:2456

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02826

SEQUENCE DESCRIPTION:

GATCCCTTCT GCCCTGGCAG AATGGCAGGG GTAATCTNAG CCTTCTNCAN TCCTTTACCC 60
TAGCTGACCC CTTACCTCT CCCCTCCCT TTNCCTTTGT NTTGGGATTG AGAAAACTGC 120
TTGTAAGAGA CTGTTTATNT TTAATNAAAA ATATAAGGCT TAAA 164

SEQ ID NO:2457

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02827

SEQUENCE DESCRIPTION:

GATCCAGAAT ATTTTCATTT AAAGCTCAAC CATTAATTGG AACATGGTGA AACATTGTAC 60
ACATTGTAAA AGTAGGGAAC AGTACAAAAG AATGGAATCA AATACTATAT TATGTGAATA 120

ANCTAGAGTG ATTTTGAAT TTCACTCTCT TCACCCCTTA AA

162

SEQ ID NO:2458

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02828

SEQUENCE DESCRIPTION:

GATCAAAAAC CTCTATAGTA GCCACTAGGG CAAAACTGT GTGTATGTGT GTGTGTAAGT 60
GTGTGTACAC TGTTCATAT GGTTCATAT GGTACCAATA GCCACATGTG ACTATTTAAA 120
TTCATTGCAA TGNAATAAAA TTAAAGGTAT ACTAGCTCAA A 161

SEQ ID NO:2459

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02829

SEQUENCE DESCRIPTION:

GATCTTCACC TCTCTGCCTC CCTACTGCCC CAACATAGCC TTGAGGAGGN TTCTCAGCCA 60
CCAAAGGGTT CTGGCCCCTT CTCCTCTCC TCTCCTCTCA GATGGAAGTC TGGTTATAAT 120
GGTGTAGTT ATCGAATAAA AACGACTTCA GAATGCAAA 159

SEQ ID NO:2460

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02830

SEQUENCE DESCRIPTION:

GATCAATTTA AAATATTTNA TTTCTTAAAA GCCTTTTTTG CCTGTTGTAA TGTGCAGGAC 60
CCTTCTCCTT TCATGGGAGA GACAGGTAGT TACCTGAATA TAGGTTGAAA AGGTTATGTA 120
AAAAGAAATT ATAATAAAG GGATACTTTG CTTTTCAAA 159

SEQ ID NO:2461

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02831

SEQUENCE DESCRIPTION:

GATCTATTTA ATTTGAGGTT GATGTTCTAT CCAATGGCCG AAGATAGCAG CAGGTTTTTT 60
TTTTCATATG TTGATTTGTT TCATTTGGAT TTTTTTTTA TNATNCTTNA TTGTCTTTT 120
TTNCCCAT CCCTGTCTTG NGATTNCG GCATGTTN 158

SEQ ID NO:2462

LENGTH:256

TYPE:nucleic acid

00911

TOPOLOGY:linear

CLONE:HUMGS02832

SEQUENCE DESCRIPTION:

GATCTGAAAT GTGATGATTA TTGGAATGCA TAAACATTGA CGTATTTTGG AATGTATTAA 60
AACTGAAATG GATAAAAATT AGTATATATG TTTATTTTGT TCTATCTCCT TTGGTTGTAT 120
TTTTCTCTGC AGTATTAAAC ATTTGGAAGA GACTAAAGGT ATGCAAAANT AATGTCTTAT 180
TTTCATTATG TGTGCTTCCA TTTGACACAT GGGAAATTAG ATTAATTTC AATTAAANTA 240
GNACTTTATA CAGAAA 256

SEQ ID NO:2463

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02833

SEQUENCE DESCRIPTION:

GATCTTGTGT CTACTCTAGG ACTGGGCCCG AGGGTGGTTT ACCTGCACCG TTGACTCAGT 60
ATAGTTTAAA AATCTGCCAC CTGCACAGGT ATTTTGTAAA GCAAAATAAG GTTTTCTTTT 120
TTCCCTTTC TTGTAATAAA TGATAAAATT CCGAAA 156

SEQ ID NO:2464

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02834

SEQUENCE DESCRIPTION:

GATCTTCTCC TTTGTGAAGC ATCCCTCACC ACTACTACTG TGATGGGTCG GGGCCTTTCA 60
TCTGTTTTTC CACAGCATCT ATGCTTCTNT NCACTGTATC ATTTATCAAA TTGATNNTTN 120
CTGCGTCCTG TAAAAACAN NGAGTACCTT AAGAAA 156

SEQ ID NO:2465

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02835

SEQUENCE DESCRIPTION:

GATCTGCATT TATCATGAGT TCCTTTTTTT TTAAACTTT ATTTTGGGA AAGTAACACA 60
TGANGTAGTT CAGTCATGTC AGGTTTGTCT GGGGTGGANT GGACAGTCA GGTAGTTGAA 120
AGTTTTTTTT TAGNGATGAA AAGCTTGTGA NCNCTGTAA ANCATGCTGN ATTTGAAATN 180
CATCTGTTNA N 191

SEQ ID NO:2466

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02836

SEQUENCE DESCRIPTION:

GATCCACCCC CTGCCACAA AAAATTGCTC CTAAGTCCAC CGCCTATCCC AAACCTACAA 60
 GAACTAATGA TAATCCCACC ACCCTTTGCT GACTCTTTT GGACTCAGCC CACCTGCACC 120
 CAGGTGATTA AAAAGCTTAA TTGTTACAC ANAAA 155

SEQ ID NO:2467

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02837

SEQUENCE DESCRIPTION:

GATCCTAGCA AATTTGCCCC ACCANCTTTA CTAAAGGGGG AGGAAGGGAG GGCAAAGGGA 60
 TGAGAAGACA AGTTTCCCAG AAGTGCCTGG TTCTTTTAC TTTCCCTTT GTTGTGCTTN 120
 TTGTAGTTAA AGGAATTTAA TTTTAAAAA GAAA 154

SEQ ID NO:2468

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02838

SEQUENCE DESCRIPTION:

GATCGGGCCT AGCCCGGCAA CACTAATGTA GAAACCTTTT TTTACAGAG CCTAATTAAT 60
 AACTTAATGA CTGNTACAT AGCAATGTGT GTGTATGTAT ATGTCTGTGA GCTATTAATG 120
 TTATTAATTT TCATAAAGC TGGAAAGCAG CAAA 154

SEQ ID NO:2469

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02839

SEQUENCE DESCRIPTION:

GATCACCCGG GGCTGTCTGC ATACAGACTT CTCAGGGGAG TTCTCAGCTT GGACCCTTAT 60
 CTCCCAGAA TCCTGGAACC TGCTCCTTCT GCTCTCGTGA CTGACTGTGT TCTCTATGCA 120
 ACTTCCAATA AAACCTCTTC ATTTGAAAGG AAA 153

SEQ ID NO:2470

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02840

SEQUENCE DESCRIPTION:

GATCTTAAGC CCAGCTCTGT TCTGCCCCCG CTTTCCTCTG TTTGATACTA TAAATTTTCT 60
 GGTTCCTTG GATTTAGGGA TAGTGTCCCT CTCCATGTCC AGGAAACTTG TAACCACCCT 120
 TTTCTAACAG CAATAAAGAG GTGTNCTTGT CAAA 154

SEQ ID NO:2471

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02843

SEQUENCE DESCRIPTION:

GATCACAGGC CTTGCTTTTG TAACAATGAT GACCCCGGCC TGTCTCATAT TCTGAAGAGG 60
AAAAGTCAAA GTGTTGCTGN GGCTCCATAT TTCAACTAAA AATATATCTG TTGGAGAAAAG 120
AAATTAACAA TAAAGAATTT TCATAGGTAA AA 152

SEQ ID NO:2472

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02844

SEQUENCE DESCRIPTION:

GATCGTATTC CCTGCTTTAA GGAAGTNTA GNCTTGTTTG GGTGATGAGA CAAAGTTCTT 60
GAGACATTTA AACTGTATTT ACCAGTGTGA AAAATGTCAT TTATGGAGAT TAATTCATTA 120
TGGAATAAAA ACATTGCCTA AGCCCTTGAA A 151

SEQ ID NO:2473

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02845

SEQUENCE DESCRIPTION:

GATCCAATCA GCTGTAAGTN TTAAGCACAG GGCTGAGGCT CCCTCCAAGT ACCCACTGGG 60
AACAGCAGCT TCAACCTGAG CCCTGNGTCC CAGCCAGCCC CCACAATCAC CTATGCCCAT 120
TCTTCAGAAT ACATTGGATG CATGTGCAAA 150

SEQ ID NO:2474

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02846

SEQUENCE DESCRIPTION:

GATCCAGAGA GTCTGAAGAC ATTTCTNATG CCTTTATATA TTGGAGAACC CTTCCCCATT 60
TTNATATCCT TTCTTCAAAA ATCTAAATNA TGTGCCTAAA AATAAGACAT GGCATAATAA 120
GGTATAATTA AAGAGATAAT AGAATGAAA 149

SEQ ID NO:2475

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02847

SEQUENCE DESCRIPTION:

GATCCAGTAC CTGAAAGATT TGATAGAAGA GGTCCGCAAG GCAAGGGGGA AGAAAAGGGT 60
 CCCCTAGTTG AGGATAGTCA GGAGCGTCAA TGTGCTTGTA CATAGAGTGC TGTAGCTGTG 120
 TGTCCAATA AATTATTTTG TAGGGAAAGT AAA 153

SEQ ID NO:2476

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02848

SEQUENCE DESCRIPTION:

GATCCTTTTG GAGTCAGACA GATGTGGTTG CATCCTAACT CCATGTCTCT GAGCATTAGA 60
 TTTCTCATTT GCCAATAATA ATACCTCCCT TAGAAGTTTG TTGTGAGGAT TAAATAATGT 120
 AAATAAGAA CTAGCATAAC ACTCAAA 147

SEQ ID NO:2477

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02849

SEQUENCE DESCRIPTION:

GATCTCCAGT GATTGGCGAT TTGACCTGGT TTCTNCCTGG ACTATTTGAA TGGGTGGATT 60
 TGTGTTGCA TCTCTTGTCT TCTTTCCTTT TCCATTCTCC TNTATTNTN TATTTACATA 120
 CTTGTATGCA ACTNTGTAAT CTGATTNCCC CATGTAACAT TTAATTTGA NGGGTGGTCT 180
 GCGTGTNCAC TGGAACAT ATNTATN 207

SEQ ID NO:2478

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02850

SEQUENCE DESCRIPTION:

GATCGAGCTC ACAGGGGGCA CCCATCCTGN TAGTCAACAG AGTCTGAAGC AGTCAGGGTG 60
 TTGGATTCCCT CTGTTGTTGT CATCAATTCC TGCTGAGGGG TTTCTGGGGT TTTGTTTTTA 120
 ATAAATAACT CCTTTGTAGC CTAAA 146

SEQ ID NO:2479

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02851

SEQUENCE DESCRIPTION:

GATCCCGGCC AGCCAGGTGA CCCCCACGCT CTGGATGTCT CTGCTCTGTT CCTTCCCCGA 60
 GCCCCTGCCC CGGCTCCCCG CCAAAGCACC CCTGCCCACT CGGGCTTCAT CCTGCACAAT 120
 AACTCCGGA AGCAAGTCAG TAAA 144

SEQ ID NO:2480

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02852

SEQUENCE DESCRIPTION:

GATCCAGGCA AATTCATGTT CTTTCTTTGT AACTCACTTT CTTCGTCAAC ATTTCTGTGA 60
CTCAATGGAT AGCATATTTT CATCAAGTAG CACGTATAAC GTGATGCTTT CATGTTTCTG 120
CCTTAAATAA AATAACCCTC AAA 143

SEQ ID NO:2481

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02853

SEQUENCE DESCRIPTION:

GATCTCTTTG ACTGCTGTAG TACTAAAGTG TACTTAATGT TACTANGTTN AATGCCTGGC 60
CATTTTCCAT TTATATATAT TTTTAAAGAG GCTAGAGTGC TTTTAGCCTT TTTTAAAAAC 120
TCCATTTATA TTACATTTGT AACCATGATA CTTTAATCAG AAGCTTAGCC TTGAAATTGT 180
GAACTCTTGG AAATGTTATT AGTGAAGTTC GCAACTAAAC TAAACCTGTA AAATTATGAT 240
GATTGTATTC AAAAGNTTAA TGAAAANTAN ACATTCTGT CCCCTGAAA 290

SEQ ID NO:2482

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02854

SEQUENCE DESCRIPTION:

GATCTGATTG AGATGTACAT AGTTTTTTTT TTTACCATAA CTGAATTATT TNATCTCTTA 60
TGTTAACATG AGAAATGTAT GCCAAATNAT TAGTTGATGT ATGTTTTTNA ATTTAATATT 120
TAAATAAAAT ATTTGGAAGG AAA 143

SEQ ID NO:2483

LENGTH:269

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02855

SEQUENCE DESCRIPTION:

GATCCTTATC AGGGAGAGCA GGAATCCTTA TTCCCGGTGT CGCTAGTACT CATCTCTGCC 60
GCCTCCTGTC TGCCCCCAGG CTGCTGCTNC TGCTGCCCTG TGGGTTGTGC CAAGTGTGCC 120
CAGGGCTGCA TCTGCAAAGG GCGCTCGGAC AAGTGCAGCT GCTGCGCCTG ATGCTGGGAC 180
AGCNCGCTCC NAGATGTAAG GAACGCGACT TCCACAAACC TGGNNTNNT TATGANCAAC 240
CCTGACNGTN ACCGTTTGCN ATATTNCNN 269

SEQ ID NO:2484
LENGTH:140
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02856
SEQUENCE DESCRIPTION:
GATCATACAT TTTATATGGT TGGGACTTCT CTCTTCGGGA GATGATATCT TGTTTAAGGA 60
GACCTCTTTT CAGTTCATCA AGTTCATCAG ATATTTGAGT GCCCACTCTG TGCCCAAATA 120
AATATGAGCT GGGGATTAAA 140

SEQ ID NO:2485
LENGTH:139
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02857
SEQUENCE DESCRIPTION:
GATCCAACCC CACCTCCTG GGTGCGGCCA GAGGCAAGGC AGTCGCCCGA GCTCCTGAAT 60
CCCAAGAATG GTTCTGGCAA GTACTGCTGT TTGTTTGTAG GGGCAAAGAG TAAAAATAAA 120
ACGAGGTTCT GCCATGAAA 139

SEQ ID NO:2486
LENGTH:139
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02858
SEQUENCE DESCRIPTION:
GATCTGCCGG CTCCGTCCA GCCTGTGTGG AAAGGAGGCC CACGGGCACT AGGGANNCNG 60
AATTCTACAA TCCCGCTGGG GCGGCCGGGT CGGGAGAGAA AGGTGGTGCT NCAGTNGTGN 120
CCCTGGGGGG TCATTCGAN 139

SEQ ID NO:2487
LENGTH:138
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02859
SEQUENCE DESCRIPTION:
GATCTTCAAT GCCTCTGAGT CATTGTTATA AAAAATCAGT TATCACTATA CCATGCTATA 60
GGGAGACTGGG CAAAACCTGT ACAATGACAA CCCTGGAAGT TGCTTTTTTTT AAAAAATAA 120
TAAATTTCTT AAATCAAA 138

SEQ ID NO:2488
LENGTH:231
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02860

SEQUENCE DESCRIPTION:

GATCATGGTT CTCTTTGTAC GATAGTTGGG CATCTGTATT TCCACTTGTG TGAATTTGCC 60
 TTAAATTTT GGTTATGGGT TTCACCTTTT AAAATAATCA AACATATTTA TCTTTTCCTG 120
 TGTGATAGGT TTTTNTCTGT ATCTTTTCCT GTTAAACACA CAGACCCCTC CCAATCTGG 180
 ACATTGAATA CNTATTCATT TTCCTTTCN NNAATANNCC NNANACANAC N 231

SEQ ID NO:2489

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02861

SEQUENCE DESCRIPTION:

GATCTGCCCC TGCATTGTAG CTTGCTTAAC GGAGCACTTC TCCTTTTCC AAAGGTCTAC 60
 ATTCTAGGGT GTGGGCTGAG TTCTTCTGTA AAGAGATGAA CGCAATGCCA ATAAATTGA 120
 ACAAGAACAA TGATAAA 137

SEQ ID NO:2490

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02862

SEQUENCE DESCRIPTION:

GATCTTTAAA TTTGAGACA GTATAAGGAA AATCTGGTTG GTGTCTTACA AGTGAGCTGA 60
 CACCATTTTT TATTCTGTGT ATTTAGAATG AAGTCTTGAA AAAAACTTTA TAAAGACATC 120
 TTTAATCATT CCAAA 135

SEQ ID NO:2491

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02863

SEQUENCE DESCRIPTION:

GATCCAAATA TTTTCAAGCC ATGTAATCCA TTGGTTTTGT GGGCAGTTTA ATAAACCTGA 60
 ACCTTTGTGT GTTTTCTAAT TGTACCTGAG TTGACCATCC TTTCTTTTA NAGTATATTT 120
 CTNGTATGAT ATNTGTAAA GCTCTCACCT GGTTCTTTTA TGGGGACTTT TCGTTTTTGG 180
 GCAACTGCAG TGTATTTATG TGAANCTTTA TANGAGAATT ANTTTTTCCA TGTGCATATT 240
 AATATGGTNC CTCCACACAT GGNNAGGGCA CAGTGGCTTC GTGTTN 286

SEQ ID NO:2492

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02864

SEQUENCE DESCRIPTION:

GATCATGCCT CTTTCCAACA CGTGTTTACA ATCTCCAAAG GGACTGTATT TNTNCTCTGT 60

GCTTAATNTG ATTTGAAATA TGTTGAATCA AAGTGAAATA TTTATNTTTT GAATAAAGGA 120
GATAATAGCC TTAAA 135

SEQ ID NO:2493

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02865

SEQUENCE DESCRIPTION:

GATCGAAAAC AAACGNTAGA TAATNCCCAA GGAGCTTACC AAGAGGCATT TNATATAAGC 60
AAGAAAGAGA TGCAACCCAC ACACCCAATC CGCCTGGGGN TTGCTCTTAA CTTTCCNGTA 120
TTTNACTATG AGATN 135

SEQ ID NO:2494

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02866

SEQUENCE DESCRIPTION:

GATCATGCCA CTNCACTCAC ACTGACACTG CCTCGGACAA CAGAGCAANA CTNCATCTCA 60
AAAAACAAACA AAAAAAATCA CAGNCTCATT TTAAAGGAGC AGCAACCNAA CCAAATACAA 120
NCTTCATTTG ACAAN 135

SEQ ID NO:2495

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02867

SEQUENCE DESCRIPTION:

GATCATTAAC ATGCCAGGGC AGTTCCCACT GATTTAGATG GTCCAAGATA ATCTCATTCA 60
GGAGGCTTGA AACATTAATG GTTTAGTCTT GTGAATTTTA ACAGTTCTCT GTCATCGTTT 120
AACAAAACCA ACAN 134

SEQ ID NO:2496

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02868

SEQUENCE DESCRIPTION:

GATCATGCCA CTGGACTCTG TGCTGAGCAA CAGAGTTAGA CCCTGTCTCT AAATAAATAA 60
ATAAACAAAT AACAGTAAA AAAATGTATA GTTCAATCCT TATCTGTATT AAACCTCCTT 120
TAACTTGTGT GAAA 134

SEQ ID NO:2497

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02869

SEQUENCE DESCRIPTION:

GATCACATGT GGGCCCGTGT CTGGCCGCCG CCGCCCGGCC CCGTCCCTGC GGNCACCACC 60
TAATTTATTG CCGTGCGTCC TGCTGCTGTG ACTGCTTTTG TACCTTTGCA ATAAAGAATT 120
TTCTGGTTTC AAA 133

SEQ ID NO:2498

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02870

SEQUENCE DESCRIPTION:

GATCCTGGAC ATATTTTATA TTTATACCAA ATATTTTATA TATTNCTAC TGTGTCAAT 60
GGTAGTGGTT TTTAAATTTT CAAACATTCA TTACTAGTAT ATAGAAATAN AATCACTTTT 120
TAAAAATGTA AA 132

SEQ ID NO:2499

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02872

SEQUENCE DESCRIPTION:

GATCCTGTTT TTTCTTAACA AGTTGAGGCG TGGGTAGAGC AGGAATTGGT TTTCCAGCAT 60
TGTGTCCGTA AACCTGAGTT AGAATAAGAT GTAACGGAAG CCACGATAAA GACTCGGTCA 120
AATCCTGCAA A 131

SEQ ID NO:2500

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02873

SEQUENCE DESCRIPTION:

GATCCTGGAT GGAAGTGGCT TCTTTATCGA GAAGAATATA ATTCTCCATG AGGACTTAAT 60
GAATCCAAAC CTGTGTCATG CCTGGTTTGC ATACCCAATT AAACACTNGA AATAAAAATT 120
NTTNGGTNN AAA 133

SEQ ID NO:2501

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02874

SEQUENCE DESCRIPTION:

GATCTCTGCT CTTTGTGAGA GATTGCAAA GACTCACGTT TTTNTTGTTC TCTCATCATT 60

CCATTGTGAT ACTAAGAAAC TAAGAAGCTT AATGAAAAGA AATAAAATGC CTATGTTGTT 120
GTTCTAGAAA 130

SEQ ID NO:2502

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02875

SEQUENCE DESCRIPTION:

GATCAAAAAA GGCAGATGNA ANTACTTAAN ACTCAGTGTT TTGGAGAGAT TTCCTTTNAG 60
TTTGTGGTT GGCTGGTTTG AACGATAGAA ATATGCAGCA TGCAATATAT GCTTATATTT 120
NATTTNAATN 130

SEQ ID NO:2503

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02876

SEQUENCE DESCRIPTION:

GATCCCCAC CTGGCAGAGG ACCCAGTACA AAATAGGCAC TCAATAGATG TTACACCAAC 60
TTTGGAAGGG CAAACATATT TCTTAATGAG AGGCAGTCCT TCATGTTTTN CAATAAAATG 120
ACTTTTAAA 129

SEQ ID NO:2504

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02877

SEQUENCE DESCRIPTION:

GATCTTCTCC GAGGCCACCC GAAGGTACTG AAGAGCCTCA CCTGGGGGCA TTTTGTGGGT 60
GGAGGGCCAG AGTGTGTATA CCCAGGCTTG TCTGGAAGGA GAAGGCCTTT GCTGCCTGAA 120
AGTCTCAA 129

SEQ ID NO:2505

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02878

SEQUENCE DESCRIPTION:

GATCTAAATA AGTGTTTCAA GGAAAGTTTT CCTAAGCAAA TGTAATATTA CCTCATTTGG 60
GCATCATTAC TCTGTTAATT CTATATCAAA GGAAATAAAC TTGCTACTTG CACTAAATGA 120
AAAAACAAA 129

SEQ ID NO:2506

LENGTH:128

TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02879
SEQUENCE DESCRIPTION:
GATCGTGCCC CGGGGCGCCG GCCCCTGNAG GGGCTCACCT GGATGGGGCC TGCAGTGCCT 60
TCCCGCTTTG CTTCTTCCC TGGACGGCCC GCTCCNGAA ACGCGCGCAA TAAAGTGATT 120
CGCAGAAA 128

SEQ ID NO:2507
LENGTH:127
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02880
SEQUENCE DESCRIPTION:
GATCACTCTT GTGGTTTTGG GGGATGGCAT TATAAGAGAG GAGACTGGAN ACAGGGGGGC 60
TATTGTNATG CAGATTTGTT GGATGTCCAC CCAGCATTCA CTTTNNCCAT CTTTGGCCAG 120
GGGNNNN 127

SEQ ID NO:2508
LENGTH:128
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02881
SEQUENCE DESCRIPTION:
GATCCCACGC AGCGTGAAC CGAACCGAGT AGGAAGCCTT TCTCCCCANG GCACGTGGCT 60
TCAGGGCGTT TCCCATTGAC CAAGTTTGAC CCTGNTTTGA ATAAAGAGAA GTGCGTTTGG 120
ATTAGAAA 128

SEQ ID NO:2509
LENGTH:129
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02882
SEQUENCE DESCRIPTION:
GATCGAGCTT CTCCTCTGAG TTCTAACAAA ATGGTGCTTT GAGGGTCAGC CNTTAGGAAG 60
GTGCAGCTTT GTTGCTCTT GAGCTTTCTG TTATGTGCCT ATCCTAATAA ACTCTTAAAC 120
ACATTGAAA 129

SEQ ID NO:2510
LENGTH:125
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02883
SEQUENCE DESCRIPTION:
GATCTCTGAT TTAACCGTGT ACTATCCACA TGCATTACAA ACATTTCGCA GAGCTGCTTA 60

GTATATAAGC GTACAATGTA TGTAATAACC ATCTCATATT TAATTAAATG GTATAGAAGA 120
ACAAA 125

SEQ ID NO:2511

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02884

SEQUENCE DESCRIPTION:

GATCTTCCAT CTCCTCAGCA AAAAAATAGG AGCCCTGGCC CCCCACTTT TTNCANAGTA 60
ATAGCCTTAN TTCCTCCCT ATCTCCTTAC CAAAGTACAN GTNACATCTT TCCCACCTTT 120
CNTN 124

SEQ ID NO:2512

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02885

SEQUENCE DESCRIPTION:

GATCTACAGA TTCAATGCAA TTNCTATTAA AATCTNATCT GGCTTTTTTT GCATAAGCAA 60
CAAAGGAAAA ANTAAGACAT CAAAATTTNA AGANCTTTTG TCCTACAAAC AATATCATGA 120
NGAN 124

SEQ ID NO:2513

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02886

SEQUENCE DESCRIPTION:

GATCAGAAAA TTCATATTTA AGCAAAGTGA TACAAACACA GTGATTTGGG AATGCCTTCA 60
TTTACAATGC AATACTTAAA TTTAATACT CTGTAGGAG AAAAAGCAAC TGTATAAATG 120
AATGTAGAGT GACTTCTGC AATATTTCAA ACCTATATCA GAGAATTACA CTGTGGGAAA 180
NCTACCATTG TAATAAGTGT AGCAAAATCT CCTTAGATAT CTGAAAAGTC ATACTGGATG 240
GAATCTGTAG GAAACGGTTC TATTTTGAGG GAAGGGGGAT TCCTTTTTGT TTTTAAAGTG 300
AATTCAGAAA ATGTTATAAA TAANTCTTTT GGTATTAT AAA 343

SEQ ID NO:2514

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02887

SEQUENCE DESCRIPTION:

GATCTNTACC CCACCCCTAT CTAACACCAC CCTTGGNTCC CACTCCAGCT CCCTGTATTG 60
ATATAACCTG TNAGGCTGGC TTGGTTAGGT TTNACTGGGG CAGAGGATAG GGAATCTNTN 120
ATN 123

00923

SEQ ID NO:2515
LENGTH:121
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02888
SEQUENCE DESCRIPTION:
GATCCAAAAT TACCTTCCTA TTGCATTTCC TACTCCTTTG CTACGNGTAT TGGACCTCTG 60
GCCAAATNAC AAAAGATGTA CTCTTTGTNC TCTAAACCA CACTAAAGTT TTCTNACTNN 120
N 121

SEQ ID NO:2516
LENGTH:122
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02889
SEQUENCE DESCRIPTION:
GATCAACCAA CCTTAAATAT ATGTATGTAT ATATGTATAT GTGAAAAACA GTTTGTATAG 60
TTGGAATATT TGTNTTTGTA ATTACTTGTG ATGTTTAAAT ATAAAANTTT TATTCAGTTA 120
AA 122

SEQ ID NO:2517
LENGTH:122
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02890
SEQUENCE DESCRIPTION:
GATCTGGCAC CCCCTGGGTG GAGTGTCCCT CGGGGGCTTT GGGAAAGCAT GGCACCCTCA 60
GACCACACAG TAGCCAAGTT CTGGAGCAAA TAAAGGCCT GTGTTATNTC TTGTNCTTGA 120
AA 122

SEQ ID NO:2518
LENGTH:119
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02891
SEQUENCE DESCRIPTION:
GATCTCAAAG ATATGCACCA GTTTGAATAA ATGCTTGTTT AAAGATTAAA TTTTACAATT 60
CATTTTAAAT TNTCATTTTG TGACAATATT TCTAAACAAC GNCCATTTTA ATNACCAAA 119

SEQ ID NO:2519
LENGTH:118
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02893

SEQUENCE DESCRIPTION:

GATCATAGGA TAGCTGACTT TGACAGTCAC ATTTATAAAG TAATTCACCT AAAGATATAT 60
ATTTTTTCA AACAAGTTT GCTACTTTG AAAATAAATC TTTCTTTATA TTGCTAAA 118

SEQ ID NO:2520

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02894

SEQUENCE DESCRIPTION:

GATCCAAACC CATCTTCCTG GACCTGAAGC TTATGCTTCC AGGCACCCCA CTCCTGAGCT 60
GAATAAAGAT GATTAAAGCT TAATAAATCG TGAATGTGTT CACATGAGTT TCCATAAA 118

SEQ ID NO:2521

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02895

SEQUENCE DESCRIPTION:

GATCTGCACA GTGTTATGGC ACCCTACTTC CTGCAGCAAC GGGACACNCT GCGGCGCCAT 60
GTNCAGAAAC AGGAGGCCGA GANCCAGCAG CTGGCAGATG CCGTCCTNNC AGGGCGGN 118

SEQ ID NO:2522

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02896

SEQUENCE DESCRIPTION:

GATCCTATCT TTNCTGGCAG GACTGGNAGC CATGGTGGGC TACGTTNTGN TCAGCGGCAT 60
TNTTCCATC CAGCGGGCAA CGCTGCTCGG GCCCCAGGCA CCCGGACCCT GGGCATGN 118

SEQ ID NO:2523

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02897

SEQUENCE DESCRIPTION:

GATCTAGTCC GGACTTGCTG TGTATATTGT AACGTTAAAT GAAAAAAGAA CCCCCCTTG 60
TATTATAGTC ATGCGGTCTT ATGTATGATN AACAGTTGAA TAATTTGTCC TCAGAAA 117

SEQ ID NO:2524

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02898

SEQUENCE DESCRIPTION:

GATCGTNATT NAGAATCCAT GTGAATAGAC CTGCGATGGC CAAGGCTGTT TAAGCNACAC 60
TGGGTTGGAA ACACTTGGGC TCTCTCATNA TTATTAAAT TCTATTCAA TCTAAA 116

SEQ ID NO:2525

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02899

SEQUENCE DESCRIPTION:

GATCCTTTGC NTTCAAGACT AAGTTAATAG AGAAGATGTT TGTAACNTG GCCCAAGCTT 60
GGNCTCCAG TGTATTGAAG CTAACCTCTT TNAGAAGCAC CACTCTCATA TATNAN 116

SEQ ID NO:2526

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02900

SEQUENCE DESCRIPTION:

GATCTCTGGG TAAAGAGGCC GTTTATCTTT GTAAACACGA AACATTTTTC CTTTCTCCAG 60
TTTTCTGTTA ATGGCGAAAG AATGGAAGCG AATAAAGTTT TACTGATTTT TGAGAAA 117

SEQ ID NO:2527

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02901

SEQUENCE DESCRIPTION:

GATCTAGGAA GACTTTGGAA AGAGTAGGAA GACTTTGGAA AGACTTTTCC AACCTCATC 60
ACCAACGTCT GTGCCATTTT NTATTTTACT AATAAAATT AAAAGTNTG TGAATCAA 119

SEQ ID NO:2528

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02902

SEQUENCE DESCRIPTION:

GATCCCAGG AGGCCTGGNC CGCCCAGAGG CTCCTCTCAG GCTGGGCCCC GACGTTTGCG 60
NCAGTGTTCC TTGTCCCCGT GGGGCCGGA GCNAGTAAAG TCTGGGCCAG GCAA 115

SEQ ID NO:2529

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02903

SEQUENCE DESCRIPTION:

GATCACGTTT CAGGGTCCTC CAAAANGCTA GCCCGGCACT AACTAGGGA ATTCNCCCT 60
CTCCTGTCAC TTGTCATGGT CTTCTTGGT ATTAAAGGCC ACCATTGCA CAAAACAAA 119

SEQ ID NO:2530

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02904

SEQUENCE DESCRIPTION:

GATCCCAGAA ATGTAGCTTG TTTATATTT TAGTCTTCTT ATTTTGTAA AATGTGTAGA 60
ATTTGCTGTT TTTNTTTTTC TTTTGACAAC TCAGGAAGAA ACTGACCTCA GAAA 114

SEQ ID NO:2531

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02905

SEQUENCE DESCRIPTION:

GATCAGCCCC CAAAGAAATG GGGGTGCATG CTGGGCCTGG CCCCCTGGCC CACCCCCACT 60
TTCCAGGGCA AAAAGGGCCC AGGGTTATAA TAAGTAAATA ACTGTNTGT ACAGCCAAA 119

SEQ ID NO:2532

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02906

SEQUENCE DESCRIPTION:

GATCTTGGCT TCTCAACAGG GCAAAGATAC CAGGCCTNCT GCTGAGGTCA CTGCCACTTC 60
TCACATNCTG CTTAAGGGAG CACAAATAAA GGTATTTCAT TTTTAAAGAT AAA 113

SEQ ID NO:2533

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02907

SEQUENCE DESCRIPTION:

GATCAAAATG TTTGAAGAAA GGAACTTTAT TTTTGCAAGT TACGTACAGT TTTTATGCTT 60
GAGATATTTC AACATGTTAT GTATATTGGA ACTTCTACAG CTTGATGCCT CCTGCTTTTA 120
TAGCAGTTTA TGGGGAGCAC TTGAAAGAGC GTGTGTACAT GTATTTTTTT TCTAGGCAAA 180
CATTGAATGC AAACGTGTAT TTTTTTAATA TAAATATATA ACTGTCCTTT TCATCCCATG 240
TTGCCGCTAA GTGATATTTC ATATGTGTGG TTATACTCAT AATAATGGGC CTTGTAAGTC 300
TTTTACCAT TCATGAATAA TANTANATAT GTACTGCTGG CATGNAAA 348

SEQ ID NO:2534

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02908

SEQUENCE DESCRIPTION:

GATCTGATGG TTTTAAAAAT GGGAGCTTCC CTNCACAGAC TCTNTCTCTC GTGCCGCTGC 60
CATGGCCATG TAAGNAGTGC CTTTNACCTT CCCCCGTGAT TGTNAGGCCT N 111

SEQ ID NO:2535

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02909

SEQUENCE DESCRIPTION:

GATCCCAACA GGACAAATCT GTGTACCTAT CTTTCTATCC TCCCTGAGCC TGTACCAACT 60
AGATTCTTCA TATGTATTTG TAACAGATTA AATTGGAAAG CAAACACAAA 110

SEQ ID NO:2536

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02910

SEQUENCE DESCRIPTION:

GATCCCCAAC TGCTCCAGCC TCTGCCCAAC TGAATCTTCA GCATGTTCTC ATCGGCGGAC 60
TNTCTTGTGT AATGTAAACT GTGCCATGTT ATTAATAAAT GTGAACTAAA 110

SEQ ID NO:2537

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02911

SEQUENCE DESCRIPTION:

GATCTGTTTG GAAAACATAG ATTGTTTTCC CCTCAAATAA GGGGAAAAAA AAANACCCTT 60
TNTNCAAATN GNTTCTTTTG TAAAAAATTA TTTTAAAAGG AAATCACAAN 110

SEQ ID NO:2538

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02912

SEQUENCE DESCRIPTION:

GATCTTTTTA ACTCTACTGT GTCATTAAGA TGCTTTGTAC AATGCCAAAC CATAGTTGGA 60
GAAACTAAGT TTAATAAATA TCAAATAGAT TTTCTGTATT AAAGTTAAA 109

SEQ ID NO:2539

00928

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02913

SEQUENCE DESCRIPTION:

GATCTCCCCC ACCCTTGGAT TAGAGTTCCT GCTCTACCTT ACCCACAGAT AACACATGTT 60
GTTTCTACTT GTAAATGTAA AGTNTTTAAA ATAAACTATT ACAGATAAA 109

SEQ ID NO:2540

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02914

SEQUENCE DESCRIPTION:

GATCTCCTNT CCCTCACTCA GTGCACGGGA CAGCTNCTCC TCCGTCACAG CTTTGGNATG 60
AAAGACAGAA GACAGCATGA TTGGCCTCAC CCACGTGCAG GNCAAATNN 109

SEQ ID NO:2541

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02915

SEQUENCE DESCRIPTION:

GATCTGTAC TCAACTTGCT GCGTNACCTG AACACGTCAC TTTACCTCTC TGTGCCTCAG 60
TTTTCCCATG CATGAAAAAT AAAATAAAAT AAAACGGGGA TTCTAAA 107

SEQ ID NO:2542

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02916

SEQUENCE DESCRIPTION:

GATCAGTAAG GATTTACCT CTGTTTGTA CTAAAACCAT CTACTATATG TTAGACATGA 60
CATTCTTTT CTCTCCTTCC TGAAAAATAA AGTGTGGGAA GAGACAAATA AA 112

SEQ ID NO:2543

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02917

SEQUENCE DESCRIPTION:

GATCATAGAA GGTGGGGTT CCAGAAAGGC ATCTGTGTGA TGGTCCATT GATGTGGGAT 60
TTCCCTACTT GCTGTATTCT CAGTTTCTAA TAAAAAGAAC CAAATNAAA 109

SEQ ID NO:2544

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02919

SEQUENCE DESCRIPTION:

GATCCAGGAG ATANTTTTTT CATTCATCCT GACCAAGACT GAGCCAGCTT AGCAACTNCT 60
GGGGAGACAA ATNTNAGAAC CTTGTCCCAG CCAGTNAGGA TGACAGTN 108

SEQ ID NO:2545

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02920

SEQUENCE DESCRIPTION:

GATCGAGCCC AGCGTACAAC TTCCTCAAGT CGCCCAAAGA CAACGTGGAC GACCCACGG 60
GGAAC TTCCG CAGCGGGCCC CTGACGGGGT GGCGGGTGTT CCTGCTGCNN NNGTGCGCTC 120
TCCTGGGCAT CGTTGTCTGC GCCGTGGTGG GGGCCGTGGT GTTCCAGAAG CGGCAGGAGC 180
GGAACAAGCG CTTCTACTGA GTGGCGCCTC CGGCGGTGGC CTGTCCCTGG GCCCAGGAGC 240
CAATGTGAAC TTTTTTGNT ACCGGGATTA TAAANGAACA ACAAGATGAC CTTATTTCTT 300
AACTGTTTCA AATAAAATGA TAAAAAGTAT TTTCAAAAAA AGN 343

SEQ ID NO:2546

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02921

SEQUENCE DESCRIPTION:

GATCCTGCCG TGCCCCATC CTGGCTGTTG GGGGTGTCCT GAGCCACCT NNNTNCGCCT 60
GTTCCCTTCA GCCAACCCGT TTCTGCAGTA AAATTAAGCC TGTCAAA 107

SEQ ID NO:2547

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02922

SEQUENCE DESCRIPTION:

GATCACTGAA CCAGACACAG CATTGCTGAC ACATGAGACT AACACGTGCA ATTATTTAAA 60
AAGATTCAA TAAAACTNCC TGGCTGGCTC CGGGCCGCC CTAA 105

SEQ ID NO:2548

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02923

SEQUENCE DESCRIPTION:

00930

GATCCTGTGG GTTTAGTATC ATTATCTTCA GCTCTTTGAT ACNCTGTGTT AGAGTAATAG 60
CTAAAGGAAG TTCATGTCAA TAAATTCATA CTTATATCAC AAA 103

SEQ ID NO:2549

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02924

SEQUENCE DESCRIPTION:

GATCCAGAGC TGGGGTGGAA GGAGAGCCAT TCTGAACGNC ACGNCTGGCC CGGTCA GTGC 60
TGCATGCACT GCATATNAAA TAAAATCTGC TACACGCCAG GAAA 104

SEQ ID NO:2550

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02925

SEQUENCE DESCRIPTION:

GATCCCNAGG CTCTGTTCCA TGAGCCTGTT GCANGTTTGT GTACTTTAGA AATGTA ACTT 60
TTTGCTCTTA TAATTTTATT TTATTAAATT AAATTACTGC AAA 103

SEQ ID NO:2551

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02926

SEQUENCE DESCRIPTION:

GATCGATGAG GCAGGTCAGT TGTAAGTGAG TCACATTGTA GCATTAAATT CTAGTATTTT 60
TGTA GTTTGA AACAGTAACT TAATAAAGA GCAAAAGCTA AA 102

SEQ ID NO:2552

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02927

SEQUENCE DESCRIPTION:

GATCATATCT AGTNTTNAAA TCTCTAGGAA CAATAGAGAT TATATCATAA CTCTGAAGAT 60
GGACTCTAAA CTTTGGTTTA CCTCCATGGA AAATAANCGN NN 102

SEQ ID NO:2553

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02928

SEQUENCE DESCRIPTION:

00931

GATCGAATGA GGGTTAAATG AATTATTCA TGTAAGCTC TTAGCCCTGT GCCTGGTACA 60
TAGTAAATNC TAAATAAATA GTGGTATTCT TACTGTTTAA A 101

SEQ ID NO:2554

LENGTH:390

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02929

SEQUENCE DESCRIPTION:

GATCCAGCTT ATTCTTTTAT TTTCAAGTCC ATTCTTGGGG CTGGTGGGGA GGCAGGAGAA 60
TACCCCTCCC TAAGCCCTTA GTGTGTGCCG AGCTTGCTTT NTGATGTTGG CAGGGGAGGG 120
GAGACCTGGG TGGTGNCTGA GTTCCCTTTA TCAAACCCTT CAATGGGCAC AAAATTGAGT 180
GCTTNNTTNN TAGGTTTTAT TTNNNNATGA ATGTCCAAAT CTGTGTTTCC CCCTGCCANA 240
ACAGACTGTG TGGCCAGTTG AAAGTGTCTT GGTGTGTGGT TCATCTCTCC CTCATTTTCT 300
TGGAGGCAGG GCCTGAGANC CCTGNCANAA TCTCCTATGG TTNTGAATCC ACGGCTTCTT 360
TTTGGACATT AAAGGTTGAT TTGATGCAAA 390

SEQ ID NO:2555

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02930

SEQUENCE DESCRIPTION:

GATCTATCCT CAGCACTGCT GAGTGTGCAG TCACACTTTC CTACCAACCC NCTTCTTACC 60
ATCTCTAGCT GCCATTTGTG GGGGGAACAA AACAAGGGAA TCCTGATTGT GTACAGTATA 120
AATTGTATTA TATTTTTTGT ACTTATGTTT TATGTAAATA GTTTGTCTCA TTCAATTGTA 180
TGTGAGCATT GAAATAAATC CTACCATTTA GGGGAAAAAA ATNNAAA 227

SEQ ID NO:2556

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02931

SEQUENCE DESCRIPTION:

GATCTTCAAA AATAATGCCT CTGTCTAGCA TGCCAACAAG AATGCATTGA TATTGTGAAC 60
ATTTGTGATA TATGTATTAA TAAATAGAGC AATTACAAGC AGCAAA 106

SEQ ID NO:2557

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02932

SEQUENCE DESCRIPTION:

GATCTTTCTT ACACAGTGAT TCATTCCTCT ATTTGTACAG TGGCTTTATG AAATATTGTG 60
AATTGATACT GTAATCAATA AAGTGCTTTT AACCAGAAA 99

SEQ ID NO:2558
LENGTH:98
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02933
SEQUENCE DESCRIPTION:
GATCCTGGTT CCCTGTTTGG AAAATTCACC ACCTCTAGCT CCTCACTGTT CTTTGTAAAT 60
AACACGCTGT TGGTAATCTT ATTAATTATT TAACCAAA 98

SEQ ID NO:2559
LENGTH:97
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02934
SEQUENCE DESCRIPTION:
GATCTGGGGA CCCTGACTGC ACAGAACAGT GGGCGCNTTA CAGACCACCG ACCGCCGAG 60
GGTGAATTAC ATCTTAATAA AGCTACTGTG AGAGAAA 97

SEQ ID NO:2560
LENGTH:93
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02935
SEQUENCE DESCRIPTION:
GATCGCCGCC AACATCCAGG CTGACTACTT GTATCGGTGA CGCCCCACCG GCCCGCAGCC 60
CCTGCTGCCC AATAAAACCA CTCCGACCCC AAA 93

SEQ ID NO:2561
LENGTH:92
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02936
SEQUENCE DESCRIPTION:
GATCATCCCT TGACAGTAGT TTGCTTTCAT CTCACCTTC ATTTGTCCCA AANNCACCTA 60
TATTTAATAA AGTCCCCCCC NGTNGTCTCA AA 92

SEQ ID NO:2562
LENGTH:91
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02937
SEQUENCE DESCRIPTION:
GATCCACAAA ATGAGACAAT GCATGTGAAA ATCCATGCTC ATGTTCTAAA CATGGAAACT 60
AGGAGCCTAA TAAACTTCCT AATTCAGTAA A 91

SEQ ID NO:2563
LENGTH:96
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02938
SEQUENCE DESCRIPTION:
GATCGTATTT TTATATCATA TTCACATATT TTTTTTTT ATTGGTGTTA GATGACATGA 60
TTAATAAAAA AGGCAAGATA TTTTCAGAAT TTGAAA 96

SEQ ID NO:2564
LENGTH:88
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02940
SEQUENCE DESCRIPTION:
GATCGCGCCA TCGCACTCTC AGCCTGGGCA ACAAGAGTGN AACTCCATCT CAAAAAATA 60
AAAATAAAAT AAGTAAGNAA TACCTAAA 88

SEQ ID NO:2565
LENGTH:87
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02942
SEQUENCE DESCRIPTION:
GATCTAATAT ATATCATCAG AAAATATATA TTGTATGTTT ACTCTTATTT TCAGAAAGAG 60
AAAATGAATA AAAATGATGA CATCAA 87

SEQ ID NO:2566
LENGTH:87
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02944
SEQUENCE DESCRIPTION:
GATCGCTTGA NCCCAGGAGT TTAAAACCAG CCCGAGGAAC ATGGCGAAAC CCCATCTTTA 60
CAAAAAATAC AGAAATNAGC CAAGAAA 87

SEQ ID NO:2567
LENGTH:86
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02946
SEQUENCE DESCRIPTION:
GATCTAAGGG GTTGCCATGG TGTTGAACAA TGCAACTTTT TATTTAAAAA AGCTCTGCAC 60
TGCCATGTAT GAAAGTNTCT TTATGN 86

SEQ ID NO:2568
 LENGTH:86
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02947
 SEQUENCE DESCRIPTION:
 GATCCNGGAT TGCTGGGAAT GGAAGCCAGG TGGGGTCATG GCACAAGTTC TGTAATCTTC 60
 AAAATAAAAC TTTTTTTTGT TACAAA 86

SEQ ID NO:2569
 LENGTH:85
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02948
 SEQUENCE DESCRIPTION:
 GATCCTGGCC ACTATGCCAG TTCTGACCTC GCATCCCCCT ACCCCGAGCC CATGCAGTCT 60
 GGGAACATGC CGCCTTCTCT CCAAA 85

SEQ ID NO:2570
 LENGTH:85
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02949
 SEQUENCE DESCRIPTION:
 GATCAAATTG TACTAGTGTC TGCAGGGTTT GTCAGTACTC GTCAAAGCCA AGTCCAATTA 60
 AAAAAAAAAG TCTTTGCCCT CCAAA 85

SEQ ID NO:2571
 LENGTH:85
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02950
 SEQUENCE DESCRIPTION:
 GATCTTTTCT TAAAATTTCT TCTGCACACA CAGGACTTCT CATTTTCCAA TAAATGGGTG 60
 TACTCTGCCC CAATTTCTAG GGAAA 85

SEQ ID NO:2572
 LENGTH:85
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02951
 SEQUENCE DESCRIPTION:
 GATCTTTTAC CCCTTTCACT CTTGGCTTTC TTATGTTGCT TTCATGAATG GAATNGAAAA 60
 AAGATGACTC AGTTAAGGCA CCAAA 85

SEQ ID NO:2573
 LENGTH:84
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02953
 SEQUENCE DESCRIPTION:
 GATCTGCCTG ATGGGAGGGC TCCTGTCGAG GGAGACAGAC ATATCCCCAC TGAAAAATTA 60
 ATAAAATTGG TTTTACATAT CAAA 84

SEQ ID NO:2574
 LENGTH:84
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02955
 SEQUENCE DESCRIPTION:
 GATCTGACTG GAAAACAATC CTGTATCCCC TCCCAAAGAA TCATGGGCTT TTTTTTNAN 60
 TTAAAAAGCA GACAAATAGA CAAA 84

SEQ ID NO:2575
 LENGTH:82
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02957
 SEQUENCE DESCRIPTION:
 GATCAAAAGA AACTTAAAAA GTGGAATGGG ATATGGCTTT TGGTACCTGA AAATAAATNC 60
 TTTAATAATT GTAAGCCAGA AA 82

SEQ ID NO:2576
 LENGTH:82
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02958
 SEQUENCE DESCRIPTION:
 GATCAAAAAT ATAGTTATAA TTTNTAAAT TTNAAAAATG TGATTGCNCT AATAAAGAAT 60
 AAAANCTATG CTTTTAAACA AA 82

SEQ ID NO:2577
 LENGTH:85
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02959
 SEQUENCE DESCRIPTION:
 GATCACTGCA GNTTCTAGGA CCCGGTTTCT TTTACTGATT TAAAAACAAA ACAAAAAAAA 60
 ATAAAAAAGT TGTGCCTGNN ACAA 85

SEQ ID NO:2578
LENGTH:81
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02960
SEQUENCE DESCRIPTION:
GATCTCCCAT AATTTGAAAT TGAAATCGTA TTGTGTGGCT CTGTATATTC TGTAAAAAA 60
TNAAAGGACA GAAACCTTAA A 81

SEQ ID NO:2579
LENGTH:79
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02962
SEQUENCE DESCRIPTION:
GATCCACCAT CTTATCTTGG TGCCATCCCT GACTTGGCTT CTGTTCATAA ATGCCTATTA 60
AATGTTTCTT TCTGAGAAA 79

SEQ ID NO:2580
LENGTH:79
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02963
SEQUENCE DESCRIPTION:
GATCCAATTG CTGGTTACAT TTTGGGAAGC TCTCATTTTA GTGCTATGTA GTTTCATTGA 60
ATAAACTGTT TAATATAAA 79

SEQ ID NO:2581
LENGTH:75
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02964
SEQUENCE DESCRIPTION:
GATCTAAGAG GAAAGTGGTT ATCGGTTGCN NTTTATTTAT AAAGGATGCA AACATAAAAT 60
TAGATTTTTG GCAAA 75

SEQ ID NO:2582
LENGTH:73
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02965
SEQUENCE DESCRIPTION:
GATCAGCCTT TTTGTTTCAA TGAGGTGTCC AACTGGCCCT ATTTAGATGA TAAAGAGACA 60
GTGATATTGG AAA 73

SEQ ID NO:2583
LENGTH:72
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02966
SEQUENCE DESCRIPTION:
GATCCCAGAG TGGCCTGCCT ATCACAACCA CATCCCTTCC CCCCACAAGG CAATAAATCT 60
CATTTCTTTA AA 72

SEQ ID NO:2584
LENGTH:72
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02967
SEQUENCE DESCRIPTION:
GATCAACGAC AAAATGCACT TCTCCCTCAA GNAGTGAGGC TTGGTCCAAT ACATGGCTCT 60
GCCCCCAGA AA 72

SEQ ID NO:2585
LENGTH:72
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02968
SEQUENCE DESCRIPTION:
GATCAATCTT GTATTTTCTG ACCACATAAA GGCTTCTTCT CTTTGTAATA AAGTAGAAAA 60
GCTCTCTCA AA 72

SEQ ID NO:2586
LENGTH:166
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02969
SEQUENCE DESCRIPTION:
GATCTTGTTT CTGAAGATGG TTAAAGTTAT AGCTTCTTAA ACGAAAGAAT AAAATACTGC 60
AAAATGTTTT TATATTTGGC CCTTCCACCC ATTTTAAATT GTGAGAGATT TGTCACCAAT 120
CATCACTGGT TCCTCCTTAA AAATTAAAAA GTAACCTCTG TGTAATA 166

SEQ ID NO:2587
LENGTH:71
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02970
SEQUENCE DESCRIPTION:
GATCATAGGA GAGACCCATT NGCTAGCTAC TTCATTCGTT CTGACCTAAT AATAAAAGTT 60

AGAACCATAA A

71

SEQ ID NO:2588

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02971

SEQUENCE DESCRIPTION:

GATCTGACGT TCCTTGTGAC TTAAGGGTCC GGCTTGGGAA TTAAAGTTTG TTTCTGGCCT 60

TTAGCCTACA AA 72

SEQ ID NO:2589

LENGTH:70

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02972

SEQUENCE DESCRIPTION:

GATCTGGCCA GTCAAGGGTC CACAGGGTGC CAGCCTCTCA CCCTCAGAAT AAAGACATCA 60

GCCATTCAAA 70

SEQ ID NO:2590

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02973

SEQUENCE DESCRIPTION:

GATCATCTAA ACTGAGTCCA GCTGCCTAAT TCTGAATATA TATATATATA TATATCTTTT 60

CACCATAAA 69

SEQ ID NO:2591

LENGTH:68

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02974

SEQUENCE DESCRIPTION:

GATCCTTATT ACAGGAAAAG CATGAGTGGT GGCTAACCTG ACCAATAAAG TTATTTTATG 60

ATTGCAAA 68

SEQ ID NO:2592

LENGTH:68

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02975

SEQUENCE DESCRIPTION:

GATCTTAGAT TTTATGTAGT ATTAAGTGAA AAAATACGAA AATAATAAAC ATTGAAGAAA 60

00939

AAAATAAA

68

SEQ ID NO:2593

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02976

SEQUENCE DESCRIPTION:

GATCACATTT TCTGTTGGTT AACATTNTTC CTAGCTTATA TGATGGAATT AAATATATTC 60
TGTGTAAAAA GGAAA 75

SEQ ID NO:2594

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02978

SEQUENCE DESCRIPTION:

GATCCACCTA ACAAGAAACC TAAAGTGTAG AGATTGCCAT TTNATTTGT AATTTTTTTT 60
TTTTTTN 67

SEQ ID NO:2595

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02980

SEQUENCE DESCRIPTION:

GATCACACAC CGGCTGTATT TAATATGTAA CATTTTCACA NATATTAAAG ANACAGAAGT 60
ATTAAA 66

SEQ ID NO:2596

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02981

SEQUENCE DESCRIPTION:

GATCAGCATG GGCCACGTAG NCGNGACTCC ATCTCTACAC ATAAATAAAA AATTAGCTGG 60
GCAAA 65

SEQ ID NO:2597

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02982

SEQUENCE DESCRIPTION:

GATCCAATTT ATGTTTTTTC TTTNTTTATA TTTTGGGGAA AATTAAAATT TTTTAAAGGT 60

AAA

63

SEQ ID NO:2598

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02983

SEQUENCE DESCRIPTION:

GATCACGCAA TAATGACTAT GTAATCTCAA AAAACAAATA AAATATTCTT AACATGGCAA 60

A 61

SEQ ID NO:2599

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02984

SEQUENCE DESCRIPTION:

GATCCAAGCA GTGTGTCCT ATATACTGA TAAAAGCACT TGGTCTTNGA TTATCAGAAA 60

SEQ ID NO:2600

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02985

SEQUENCE DESCRIPTION:

GATCATTTTG CACATAGCTT TATCAACTTT TAAACATTAA TAACTGATT TTTTAAA 58

SEQ ID NO:2601

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02986

SEQUENCE DESCRIPTION:

GATCTTTGCA GTTTTGNGAC AATTACAAGT AAAGCTGCTA TAAACATTG TATGCAAA 58

SEQ ID NO:2602

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02987

SEQUENCE DESCRIPTION:

GATCGACACG CAGCTAGCCT CCTGCATTGT ATGGTTATAA ATAGCACCT AGTGAGTNCT 60

GTCGTCCAGT CAAA 74

SEQ ID NO:2603

00941

LENGTH:58
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02988
SEQUENCE DESCRIPTION:
GATCCTGGGG CAACCCATCT GGTCTCTTGA ATAAAGGTCA AAGCTGGATT CTCGCAA 58

SEQ ID NO:2604
LENGTH:56
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02989
SEQUENCE DESCRIPTION:
GATCACGTTT CGTGTTTCATA CTCAACGTTA ATAAAAGGAG AGAGTTTGTA GTGAAA 56

SEQ ID NO:2605
LENGTH:55
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02990
SEQUENCE DESCRIPTION:
GATCGCTGTG CCTGGCATAT AGTAGGTGTT CAATAAATGC CCTGTGACTC TCAA 55

SEQ ID NO:2606
LENGTH:59
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02991
SEQUENCE DESCRIPTION:
GATCTATCCT CAACAACAAC AGAAAAAAGG AATAAATAT CCTTTGTTTC CTAGTGAAA 59

SEQ ID NO:2607
LENGTH:54
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02992
SEQUENCE DESCRIPTION:
GATCCATTTT AAAATTTGTA ATTCAATAAA GTTTTTTTTG TTGTAAACA TAAA 54

SEQ ID NO:2608
LENGTH:53
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02993
SEQUENCE DESCRIPTION:

GATCTTGAT TCAGTCAGGT TAAAACAACG GACAATAAAA GAATGAACAC AAA 53

SEQ ID NO:2609

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02994

SEQUENCE DESCRIPTION:

GATCTGGGGT GGGAGTAACA GGGCAGAAAT GATTAAAATG TTTGAGCACA AA 52

SEQ ID NO:2610

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02995

SEQUENCE DESCRIPTION:

GATCCTTTTT TTTTCCACA AAATTTTAC AAATAAAAAA TGTCCCCTA AA 52

SEQ ID NO:2611

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02996

SEQUENCE DESCRIPTION:

GATCTCAAAG TGCCTTCTGA AGCATCAGAG ATTAAATATT GTTCAAACCTA AA 52

SEQ ID NO:2612

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02997

SEQUENCE DESCRIPTION:

GATCTGAATG GGGCTTNCCT GATGTTGGTA TCTAAGGCTT AGGCCTATAG ATN 53

SEQ ID NO:2613

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02999

SEQUENCE DESCRIPTION:

GATCTTGAAT GTATTTTCTT AAGTTTATTA ATAGACATTT TCACAATAAA 50

SEQ ID NO:2614

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03002

SEQUENCE DESCRIPTION:

GATCTATCTG GAAAATGNAG GACTCCGAAT AAAAAGCTAT TACTAATAAA

50

SEQ ID NO:2615

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03005

SEQUENCE DESCRIPTION:

GATCAGGGGA AATNTTTAAG CTAAATAAAT CTGGGGGGTT TTTTATTCAA A

51

SEQ ID NO:2616

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03028

SEQUENCE DESCRIPTION:

GATCGAATGG TATATATTAG AAATTACATC TGTTGTAATT AAAATTGTGT GAGCAATTAA 60

ACATGGTTGA NTTTTTCAAG CAAAAATCAG TTCATCTTTT GATGTAATTT TCTAGGCTAA 120

ATGGCAATCT CTGAAAGATG AATAAAGCTA TATTTATTTA GCAAA 165

SEQ ID NO:2617

LENGTH:254

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03030

SEQUENCE DESCRIPTION:

GATCACATTT TAAGCATCTN TCTCTCCTAC TCCATTTAGA AAAATAAGTA ACAGGTGAAA 60

TGTGGTCTCA GTGTAAACGG GATAATTCTG CTACCGGCTC CTCCCTGATG ATTCTNAAAT 120

ACACTACTGA ACGAGCTCTG GCTGGTCCTT TCTATCCTGG ATGTGGTTCT TCTGTGTAGC 180

AATTCCTTGA NGTCCAGGTT GGAAAGATGT ACTCTTCTCA ACCAAGGAAA ACCTTAAATC 240

CCGTCGTGGC CAAA 254

SEQ ID NO:2618

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03031

SEQUENCE DESCRIPTION:

GATCAACCCC AGACTGGGCC AGAATGTTAG TGAAGGTTTT ATTGTGCCCC GTTGGAGGAT 60

AACGTTCTTT GGGTACTTTT TGTGGGTGTC AAATNAACTC AATTGCCACA AGTTTTAAAC 120

TGGTGTAAT CAAGCTTGAC TTAATGTGAT TGTNACTGTT ATATCCAGNC TATACTGCTA 180

GCAGCTGCTC ATACTGCAGT CAATTACTGG AAGCGGATAT ATTCCTATG CAAAACTGT 240

TTAAACAATA AAATGAGCTA TGCTACAGAA A

271

SEQ ID NO:2619

LENGTH:489

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03053

SEQUENCE DESCRIPTION:

GATCCACAGC TTAAAGATGG GAATTCAGGT ATGAAAGAAA ACAGGCAAGG AGGCACTGAG 60
GGAGAAAGAC ACAGACTTTA TCGCTCTGTG GCTCATTGTT ACTGGAATAT NCTAAAACTC 120
TTGTNCACAT GCTATTATGA CTTATAAAGC AGCAACAGCT GAGGCGCACC AGGACACAGC 180
TTCCATTTCT TTAACGTCTG TNCCCTTAAC ATCGCTGAAA TNATTTACTG TTGAAGAGAT 240
GCCTTGCGGT GTGGCCAGCT GTGAGGAGAA AGCAGCTGGC AGTGTTAGGA CATTAGTCCA 300
CCTTCAGCGC AGGGTCTCTG GCCGGGTCTG ACTCAGAAAC CTTGGTACTC GNCCCTTGGN 360
CACAGTGCCC AGACCCATGT AACCNACTNG NTCCTGCATT AACCNAGAAA TACCTCGGTT 420
CTATNTGTGC ACTTAGCTGG GGACTTACCC ACTGTAATCA CCTNAATNAA NGGGTTNTAA 480
ACATGAAA 489

SEQ ID NO:2620

LENGTH:471

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03055

SEQUENCE DESCRIPTION:

GATCCAAAAC GCTTCGAGGC ACCCCAAATN ACCTGCCCAT TCGTNAGGAN GACCCACCCA 60
CCCAGTGTTA TATTCTGCCT CGCCGGAGTG GGTGTNCCCG GGGGCACTTG CCGACCAGCC 120
CCTTGCGTCC CCAGGTTTGC AGCTCTCCCC TGGGCCACTA ACCATCCTGG CCCGGGCTGC 180
CTGTNTGACC TCCGTGCCTA GTCGTGGCTC TCCATCTTGT CTCCTCCCCG TGTCCCAAT 240
GTNTTCAGTG GGGGGCCCCC TCTTGGGTCC CCTCCTCTGC CATCACCTGA AGACCNCCAC 300
GGCAAANACT GAATGTAANC TGTGNCTGNN GNCTCGGTCC AACTTGCGGN CCGTGTTTNA 360
CTNAACTNAG CTCCTTTAAC GGTAATATTT CNGGGAAAAT CCCATGNTTG GGTTTTGGTC 420
TTTAACCTTG GTAACGGTTG AAATCCAATT AAAGNTTTAA AAGTCATGAA A 471

SEQ ID NO:2621

LENGTH:435

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03056

SEQUENCE DESCRIPTION:

GATCACCATT AAATCTGAAA GTACCTTTAA AAATACTGAG ATTNCTTCA TACTGGGCCA 60
GGNATTTNAC GAAGNACCTG CAGATGACAG GAAAGTCAAG AGCACCATAA CCTTAGATGG 120
GGGTGTCCTG GTACATGTNC AGAAATGGGA TGGAATCA ACCACCATAA AGAGAAAACG 180
AGAGGNTGAT AAAGTGTGG TGGAATGCNT CATGAAAGGC GTCATTCCA CGAGAGTTTA 240
TGAGAGAGCA TAAGCCAAGG GACGTTGACC TGGACTGAAG TTCGATTGA ACTCTACAAC 300
ATTNTGTGGG NTATATTGTT CAAAAAGNTA TTGTNGTTTT CCATGGATTT AGCAAGCAAC 360

TAATTTNTC CCAAGCTNGN TTTTTTCAA TANTGGTNAC GTTGGNTAAA TAAANNTTTT 420
TTTAGGNTTT TNAAA 435

SEQ ID NO:2622

LENGTH:411

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03058

SEQUENCE DESCRIPTION:

GATCTCATCA GGGGAAGGCT CTGTGATGCT GCAGGTTGAT GTAGACACAG TAAAAGGAGG 60
GCTGAAGTTG AACCCCAACT NNCTGGTGGA CTCGGGAAG GAGCCCCTTG GCCCAGCCCT 120
TGCCCATGAG CTCCGCTACC CTGGGGGCGA TTGTAGCTCT GACATCTGGA TTTGAACTCC 180
ACCCTCATCA CCCACACTCC CTATTTTGGG CCCTCACTTC CTTGGGGACC TGGCTTCATT 240
CTGCTCTCTC TTGGCACCAG ACCCTTGGA GCATGTACCA CACAGCCAAG CTGAGACTGT 300
GGCAATGTGT TGAGTCATAT ACATTTACTG ACCACTGTTG CTTGTTGCTC ACTGTGCTGC 360
TTTTCCATGA GCTCNTTGAG GCACCAAGAA ATAACTNGT AACCTGTAA A 411

SEQ ID NO:2623

LENGTH:410

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03059

SEQUENCE DESCRIPTION:

GATCCAGGCG GGATGGAGTG TGGAGTGTGG GCACAGTGGC TTGTACAGGC CTGGNCTGGG 60
CAGACTTGCC CCGGAGTCTC AGGCCACTGC GGAAGGAGGA CGCGTGGCCA GCAGGTGCCA 120
CCAGGAGAGG AGAGGAGGGC CAGGCTGAGC TGCATCTNTG GACTCCAAGG AGAGCTTGGA 180
GAGGTGACTG AAACCCTGCC CCACCCCCAG CCTGTNTCCA TCTGTGGGTC CTTGGGCAAA 240
TTGCCTCATC TCTCTNAGCC TCGAATGCGT AGTTTCAGGA CTAAGTAGGG TACTGTGTAC 300
CAACTGCCTC TGCCAACGGC CCTGCACTGG GCANGCCTGG GGTACCTGGG CTTGGGGNA 360
AGGAAGTAGG CCTTNGGNAG GAGGCTGGAT TGCTTACAAT TTNNTTTTN 410

SEQ ID NO:2624

LENGTH:408

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03060

SEQUENCE DESCRIPTION:

GATCTGCGGC CCATCTACAT CTCTGTGCAG CCGCCTTCAC TGCACGTGCN GGAGCAGCGG 60
CTGCGGCAGG CATACTACTGA AACCGAGGAG AGCCTGGTGA AGCGGCTNGC TGNTGCCAGG 120
CCGACATGGA GAGCAGCAAG GAGCCCGGCC TGTTTGATGT GGTCATCATT AACGACAGCC 180
TGGACCAGGC CTACGCAGAG CTGAAGGAGG CGCTCTCTGA GGAAATCAAG AAAGCTCAAA 240
GGACCGGCGC CTGAGGCTTG CTGTCTGTTC TCGGCACCCC GGGCCCATAC AGGACCAGGG 300
CAGCAGCATT GAGCCACCCC CTTGGGAAGG CGATACGGCA GCTCTGTGCC CTTGGCCAGC 360
ATGTTGGAGT TGGAGGAGAT NCTTGCCCT GTTGGTTTGG ACCATCCN 408

SEQ ID NO:2625

LENGTH:398

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03061

SEQUENCE DESCRIPTION:

GATCTCAACG AGACAAACGA TGGGTGGACC CGAACTCCCC GGTGCTCTTN GAGGACCCAG 60
TCCTTTNTGC CTTGGCAAAA AAGCACAAGC GAACCCAGC CCTGATTGCC CTGCGCTACC 120
AGCTGCAGCG TGGGGTTGTG GTCCTGGCCA AGAGCTACAA TNAGCAGCGC ATCAGACAGA 180
ACGTGCAGGT TTTTNANTTC CAGTTGACTG CAGAGGACAT GAAAGCCATA GATGGCCTAG 240
ACAGAAATCT CCACTATTTT AACAGTGATA GTTTTGCTAG CCACCCTAAT TATCCATATT 300
CAGATGANTA TTANCATGGA GGGCTTTGCC TGATGGTNTA CCAGAAGCCC TGTGTGTGGN 360
TGGGTGACGC AGAGGGACGT CTCTNTGCCG GTGACTGN 398

SEQ ID NO:2626

LENGTH:394

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03062

SEQUENCE DESCRIPTION:

GATCACAGCT GGGGGAAAAA AAGCTTTTTA ATTCTGTACC TTCCTAGTAG ATAAGTGAAG 60
AGCAGGGAAA GAGACCTTTA AATATTTTNC TATAAAAAA TTTGTGATAA GTTCTATCA 120
AAATGGGGAG ATTCAGAAAA AGGCTTCCCT TGGNTCCCAA GGAGGTGTAG CAGGTGTGAG 180
CAATATTAGT GCCATGTGCC TTTACACAG GGTTCGATT TATCAGTCTG TTTCCGATG 240
NNNNGGTACA TGAAAGAGTA CACCATGTGA AGAGAAGAGA GAATGATTGA AAATGTTTTA 300
GTATAGACCT CTTCTTGCA GGGTTGCTA TTTCTAGAT TTTACTTTTT AGGGACCAAA 360
NTAAANTCCT TTGTAAACN TGGGTCAGNG NAAA 394

SEQ ID NO:2627

LENGTH:392

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03063

SEQUENCE DESCRIPTION:

GATCGCACCA TTACACTCCA GCCTGGGTGA CAGAGAGAGA CCCTGTGCCN NTCAAAAAA 60
TGTTTTTTTT AAACAAGAAT CTCTCAGGCA TACTGAAATN TTGAAGAGGA AATNATATTA 120
ATATCTGGGA CTTGTTTCCA AATTTGGAAT TGGGGCAGGG TGTAATNGT TGGCAATATC 180
AAAGAAACGA GGAGTTGGAA TNATAATTGT AGAAGCTGCA TGATAGATAC ACATTCTTTA 240
TACTTCTGTA TATGTNGAAA TTTTNNATCA AATTATAATN GTGTATAATG ACTAATTATG 300
CTTNCATTGT CTATCCTGTG TGGTTATGTN ACTTGCTGAA ATNNATACAT AANGGGTCTT 360
CAACCTTNAN NTGGTCTTAT CCANGGCATA NN 392

SEQ ID NO:2628

LENGTH:385

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03064

SEQUENCE DESCRIPTION:

```
GATCTGTAAT NATCTCTATT GGCCTGGGGT GCCTGTGCTA TAAATAAGTT TCTTCACATG 60
AAAAACACAG CCAGCCCAAG ATNACTTATC TGGGTTTAGG ATTCAATAGT ATTCATAAC 120
TGCTTATNAC ATGAGCAATT TCATCAAATC TCCAAACTCT TAAAGNATGC TTTCGGAAAA 180
CACGCTGTAT ACCTAGATGA TGAATAATG CAAAATCCTT GGGCTTTGGT TTTTCTTAG 240
TAAGGATTTT AAATAACTGC CGACTTCAAA AGTGTCTTA AAACGAAAGA TAATGTAAAG 300
AAAAATTTGA AAGCTTTGGA AAACCAAATT TGTAATATCA TTGTATTTT NATTAAAAGT 360
TTTGTAAATA ATTTCTAAAT TAAAA                                     385
```

SEQ ID NO:2629

LENGTH:385

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03065

SEQUENCE DESCRIPTION:

```
GATCGGGGCC CTGGGGCTGT NAGACCCCGA CCNTCTCGAG GAACCCTGCC TGAAACGCCT 60
CCATTACCAC TGCAGCTGA GATGAGGGGA CTCACAGTTG CCAAGAGGGG TCTTTGCCGT 120
GGGNNGGNTC GCCAGCCACT CACCAGCTGC ACTGAGAGGG GAGGTTNGCA CACCCCTCCC 180
CTGGGCCGCT GAGGCCCGCG CACCTGTGCC TTAATCTTCC CTCCCCTGTG CTGCCCAGAGC 240
ACCTNCCCCG CCCCTTTACT CCTGGGAACT TTGCAGCTGC CCTTCCCTNC CCGTTTTTAA 300
TGGCCTGCTG AAATATGTGT GTGAAGAATT ATTTATTTTC GNCAAAGCAC ATGTAATAAA 360
TGCTGCAGNC CNGCCTNTGC CAAA                                     385
```

SEQ ID NO:2630

LENGTH:385

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03066

SEQUENCE DESCRIPTION:

```
GATCCCGGGN AGTNACAGGT GCCGACGTGA TGTCGCTTCT NTGGTGCCCA GCTCCCTTCC 60
TGGTCTNANA CTAGCTCTGG GGGTGGCGGG GGCCCCACA CGCTGCTCCC GCTCCACCCT 120
GCCCCTNCTG CTGCTCTGTG CCTGCTGTCA GAGCCCTGGT GGGGGAGGAT GTGGCCACCC 180
TGAGACCCGG AGGAGACGGG CGTCTGCCTG GNTTTCGGA GAGCNGCTTA TGGGTGTGGT 240
CCGTCCAGAC ACCTTGTTTC AAGGGGGATG GCGTNANGG GCAAGCAGAG CATCCCACC 300
GNTGAGCAAG AACTTTTTCT TGTTTTTAAA CCATCACGTC CTCATTTCAC AATTGGAATA 360
AAGTGAGTTT TTTGAAAACC TGAAA                                     385
```

SEQ ID NO:2631

LENGTH:381

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03067

SEQUENCE DESCRIPTION:

GATCGCAAGG AACTGGGCCG CCTACTACCC CGACCTGCCC ACCCCAGAAC AGCAGCAAGA 60
 CATGGCCAG TTCATACATT TATTTCTAA GTTTTACCC TGTAAGGAGT GTGCTGAAGA 120
 CCTAAGAAAA AGGTTGTGCA GGAACCAACC AGACACCCGC ACCCGGGCAT GCTTCACACA 180
 GTGGCTGTGC CCCNTGCACA ATGAAGTGAA CCGCAAGCTG GGCAAGCCTG ACTTCGACTG 240
 CTCAAAAGTG GATGAGCGCT GCGCGACGG CTGGAAGGAT GGCTCCTGTG ACTAGAGGGT 300
 GGTCAGCCAG AGCTCATGGG ACAGCTAGCC AGGCATGGTT GGATAGGGGC AGGGCACTCA 360
 TTAAAGTGCA TCACAGCCAA A 381

SEQ ID NO:2632

LENGTH:370

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03068

SEQUENCE DESCRIPTION:

GATCCGTAAG TCCATGACCA AGGAGGCCAT CCGAGAGCAC CANATGGCCC GCACTGGCGG 60
 CACGAGACAG ACCTGTNCAC CTGCGGCAAG TGCAGGAAAA AGAACTGCAC CTACACACAG 120
 GTGCAGACCC GCAGCTCTGA TGAGCCCATG ACCACCTTTN TTGTCTGCAA CGAGTGTGGA 180
 AACCGCTGGA AGTTCTGCTG ACCCCTCGTG TAGATGTGCT GCAGCCTTGG GCCCTCCCCG 240
 GCCCAGTCC TCCGTTGACA CAGCTTCTNT GGAGACCCTA GAAGGCGGCA TGTCTGCC 300
 TCAACCTGCC TGCNTGGATT GCACCTTTCT GCCCTTTCCC CNTNATTATT AAATGTTTCT 360
 TTTTGCCAAA 370

SEQ ID NO:2633

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03069

SEQUENCE DESCRIPTION:

GATCTTCTTC AAGCCATTAT TTAACTCAA GAAAACCTCTA GAGAAGAAAA GTGAAGAAGT 60
 CATGTTGAAG AAGATGTAAG AATGTGTCAA GACCATCCAG AAATNATATG AGAAATACTG 120
 ATATTTTAAA TGGTTGACAT CATCCAGCGA AATGAATCTA CATTAAATGT TGTTTAACT 180
 GCGCTATGAT TAAAACCAT CATATAGAGT TAGTNTTAC AACTACTATT CTGTTATTTT 240
 TTTTAAATC TGACAACATT TGTCCTAAGT AAGATAAGCA AAAAAATTCT TCAACTCCTT 300
 TTGGCAAGAA AACTGTAACA GAAAATAANT TTTGAATGTG TACN 344

SEQ ID NO:2634

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03070

SEQUENCE DESCRIPTION:

GATCCCTGGT CCAGAATTCC ATTTACCTTC TGGGCCAGAT ACCACCAGAA TGCCCCTCC 60
 ANATCCCTC AGACCTTTC GGTCCCAT ATTGGTCCTG GTGGTACAGC CAGTGCCAAC 120
 TTCGTGCCA ACTTTGGTGC CATTGGTTTC TTCTGGGTTG AGTGAGATGT TGGATATTGC 180
 TATCAATCGC AGTAGTCTTT CCCCTGTGTG AGGCTGAAGC CTCAGATTCC TTCTAAACAC 240

AGCTATCTAG AGAGCCACAT CCTGTTGACT GAAAGTGGCA TGCAAGATAA ATTTATTTGC 300
TGTTCCCTTG GCTACTGNTT TTTTCCCCT TGTGTGCTGT N 341

SEQ ID NO:2635

LENGTH:340

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03071

SEQUENCE DESCRIPTION:

GATCGNCAAG AAAATTNAGA TTGGCGATGG GGCAGAGCTG ACGGCAGAGT TCCTCTACGA 60
CGAGGNGCAC CCCAAGCAAC ACGNCTTCAA GCAGGCCTTC GCCAAGCCCA AGGGCCCAGG 120
GGGCAAGCGG GGCCATAAGC GCCTCATCCG NGGCCCGGGT GAAAATGGGG ATGACAGCTA 180
GGAGGCTGGA GCATNNGNCG GCCACGTNTG GACTGTGGGG CTGCCCACCT TCCGCTCCCT 240
GCCACCATCC TCCTTCCTGG GCTCCAGGAA AGTNTTCTG GGAGGTCAGG AGGGCTGGCA 300
GCTGAACGC ACTTGCAGCG TCCGANGGNC ACCGGGCTTN 340

SEQ ID NO:2636

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03072

SEQUENCE DESCRIPTION:

GATCTGTCTG CNTTCCTCAA GACCATTGCA CTGAATGGTG TGGAGGACGT GCGAACCGTG 60
CTGGAGCACT ATGCCCTGGA GGATGACCCG CTGGCGGCTT TCAAACAGCG GCAAAGCCGG 120
CTAGAGCAGG AGGAGCAGCA GCGCCTGGCC GAGCTCTCCA AGTCCAACAA GCAGAACCTC 180
TTCCTTGCT CCCTCACCAG CCGCTTGTGG CCTCGCTCCA AACAGCCCTG AACTCTGGGC 240
CTCCTCAAAC TCAGTGCCTG GGTCCAGGGC CCCAGTGCTT CCAGACCAAG ACTTGGGCCA 300
CCACTTNTCC AATAAAGTAC ATCCGAGACG GCAAA 335

SEQ ID NO:2637

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03073

SEQUENCE DESCRIPTION:

GATCCAGTTG TGAACAAAGA GTCCTCTTNG TGAAAAAGAA AAAAATACAT NTCCCTTTAA 60
ACGGTGGATT GAAAATAACT TTNATTTATA AAGAGAAGAC TGAGGGCGGG GATACTGATT 120
CANNAATCCT GTAGCGTGTG ATAAAAGAAG AGGAAATGGC ATGGAATCAC TGCCTCCTGT 180
GATTTGAAGG CCATTGTGAA GGAAAACAAT GCAGTGAAAG AAAGTTCTTC ATATTAGGCC 240
AGATATCATT GCATCACATT TATTTATCTT TCTGGNATTT TTATAGCCCT TAATAAAAAA 300
TATTAAAATA GCCTGTGCTA TTGTGTCTTA AA 332

SEQ ID NO:2638

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03074

SEQUENCE DESCRIPTION:

GATCAAGAAT TTGGTGTGGA CGTTGGCCCT GTTTGCTTTT TATAAACCAA ACTCTATCTG 60
AAATCCCAAC AAAAAAATT TAACTCCATA TGTGTCCTC TTGTTCTAAT CTTGTCAACC 120
AGTGCAAGTG ACCGACAAAA TTCCAGTTAT TTATTTCCAA AATGTTTGA AACAGTATAA 180
TTTGACAAAG AAAAATGATA CTTCTCTTTT TTNGCTGTTC CACCAANTAC AATTCAAATG 240
CTTTTNGTTT TATTTTTTTT ACCAATTCCA ATTCAAAAT GTCTCAATGG GGCTATAATA 300
AATAAACTTT CAACACTCTT TTATGGTNAA CCAAA 335

SEQ ID NO:2639

LENGTH:384

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03075

SEQUENCE DESCRIPTION:

GATCAAGCCT GCCTCAATCA GTATTCATAT TTATAGCCAG GTACCTTCTC ACCTGTNAGA 60
CCAAATTNAG CTAGGGGGGT CAGCCAGCCC TCTTCTGACA CTAAACACC TCAGCTGCCT 120
CCCCAGCTCT ATCCCAACCT CTCCCACTA TAAAACTAGG TGCTGCAGCC CCTGGGACCA 180
GGCACCCCCA GAATGACCTG GCCGCAGTGA GGCGGATTGA GAAGGAGCTC CCAGGNGGGG 240
CTTCTGGGAA GACTCTGGTC AAGAAGCATC GTGTCTGGCG TTGTGGGGAT GAACTTTTTG 300
TTTTGTTTCT TCCTTTTTTA GTTCTTCAA GATAGGGAGG GNAGGGGGGA ACCATGAGCC 360
TTTGTGGCT AATCANTCCC AAGN 384

SEQ ID NO:2640

LENGTH:352

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03077

SEQUENCE DESCRIPTION:

GATCAAAGGT TTAAAGTCTA ACTTCTAAGA TATATTTGCA GAAAGAAGCA ACATGACAAT 60
AGAGAGAGTT ATGCTACAAT NATTTCTTGG TTTCCACTTG CAATGGTTAA TTAAGTCCAA 120
AAACAGCTGT CAGAACCTCG AGAGCAGANC ATGAGAACT CAGAGCTCTG GACCGAAAGC 180
AGAAAGTTTG CCAGGNAAAA AANNGGCATC ATTATTACCA TCGATTCACT GCCTGGTTAA 240
NGNGGNAAGC TTAATTNGTT TNAGTGGCAG CCNCNTNGCA CGTGGTTTGC TATGNAGGTG 300
AANGGTTTCC CAATTCCTTC AGGCTTTTTN GGGGGTTTTG GGGCTCTNCC TN 352

SEQ ID NO:2641

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03078

SEQUENCE DESCRIPTION:

GATCAAACAG CTCTAAGTAT GAAGCAAGAG TAAAGACTAA GGTTTCGAGA NCATTCCTAC 60
TCACATAAGT GAAGAAATCT GTCAGATAGG AATCTAAATA TTTATAGTGA GATTGTGAAA 120

GCAACCTTAA AGTTTGAAG AAGACTGATG AGACTAGGTG CNNNGCTTCC TTTCATCAGG 180
TATCTTTCTG TGGCATTGA GAACAGAAAC CAAGAAACAT GGTAATTNCT AANTTATGAG 240
GCTTTGCTTT TTGTTTGCTT TTAAGTAGAA AACCATGTTG GCAACATTGA GTTTTGGNGT 300
TGATTGAGAT AATATGNCTT N 321

SEQ ID NO:2642

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03079

SEQUENCE DESCRIPTION:

GATCTTTGGC TGGAAACTA GAATTTATAG CAGTTTATTA ATGATACCTT AAATNACTCA 60
GGACTTAATG TAGCATTGCA CTTCTGTGTA CAGTAAACT GCTTTGTTTT ACTAAAGAGA 120
AAAATGTGAG TGGAAAAAAT ATGTATGTGT TATATACTCA AATGTATATA ATNCTATCTA 180
TAGATTTATA TATGTATACA TTCTGTACAG TAGTTCCATC AAAATATGTA ATAATTCACA 240
CCAATTTTAT TAAATGTATT TNCTTTTCA AAATTAAAT TGAGCTGCTA TCAATATTAA 300
ATGAAGTTAT GGCATCTAAA 320

SEQ ID NO:2643

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03080

SEQUENCE DESCRIPTION:

GATCCCTTCG ATGTGGATTC AGGGAGAGAG TTTGGAAACC CCAACAGGCC TGTGGCATGC 60
ACCCGGCTGC CCTCGGACAC TGATGACAGT GATGCGTCTG AGGACCCAGG GCCTGGCGCC 120
GAGCGCGGAG GAGCCAGCAG CAGCTGCTGT GAAGAGGAGC AGACGCAGGG ACGGGGGGCT 180
GAGGCCAGGG CCCCGGCTGA GGTGTTGAAA GGAATCAAGA AACGGCAGAG AGACTNAGGG 240
TTGCAGACAC ATATATTTTT GAGGCTGGGT GACGAGAAAA TCTAGAGACA TGAGGGACAT 300
AAA 303

SEQ ID NO:2644

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03081

SEQUENCE DESCRIPTION:

GATCCAGACG CAAGANGGCT GTCCTCTCTA AGGAATATGG TTTTNNCTT CTAAGTGGTG 60
CTGCCAGCTT TATAATGGTG GCCCACCTAG CCATCANTGT TTCCAAGGCC CGCAAGANGT 120
ACAAAGTGGA GTATCCTATC ATGTACAGCA CGGACCCTGA AAATGGGCAC ATCTTCAACT 180
GCATTCAGCG AGCCCACCAG AACACGTTGG AAGTGTATCC TCCCTTCTNA TTTTNNCTAG 240
CTGTTGGAGG TGTTTACCAC CCGCNTATAG CTTCTGGCCT GGGCTTGCC TGGATTGTTT 300
GGACGAGTTC TTAN 315

SEQ ID NO:2645

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03082

SEQUENCE DESCRIPTION:

GATCCTTCTT GGCCCCAGAA AGTCATTTGG CATGGCTCCA GCCCCCATGG CATCCGCTTN 60
TGGATAACTA CTGTGAAGCA TGGCGAACCG CGGACACAGC GGTCACGGGA CTGCCTCCC 120
CGCTGAGCAC GGGGAAGATT CTGGACCAGA AAGCATACAG CTGTGCTAAT CGGGCTAATT 180
GTCCTATGTA TCGAAAACAG TTTCATGNCA GNCGTTAGGA AGTAATTGGC TTCTTNATGA 240
TTCTTAAAN GNGTTTTCAA TTTTCCTAA TGNGAAGNGT TGNCACTGAA ATCTAAAATG 300
TTTANTTGTG NAAA 314

SEQ ID NO:2646

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03083

SEQUENCE DESCRIPTION:

GATCACTGTG GACAGGGTGC AGCTCTACCA GTTCCTGTTT CTNCTGAGCC AGACCCCTCTT 60
CAGGGAAGGG ACCAATTAAT TTAAAACTC ACTTGAAGCA CAGCTGGTCA TGGGGCTTGG 120
TATAAAGTTC CTATTTCCAC CCTGATACTT CCAATTCCTG GAACCCAGC CCACTCCNCC 180
ATCCCTCCTC CCTATCAAAC TAGTATAATG ATTTTGAATC GGTACAGTGT GTTTAACTGT 240
AACTAAGTTC GACAGACTAT TATTATCTTT GTAATAAATT AACCTAGCAA TAAAAATTAT 300
TCTGTNTAAA 310

SEQ ID NO:2647

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03084

SEQUENCE DESCRIPTION:

GATCTATTAA GCTTGANACA TTANGTNTCA TCACGCACTG AAGACAGGAA GCAGTTCCT 60
GAGTCAGCTG GTTCCCAAGC TCGCACAGAA GGTGATAAGT TACTATCAA TGCCAGTNAG 120
AATCTNCTTA TAGAATAACC TGGGCCCAAG TNATTTTNGT AAAAACTTG CCCTTCTTTG 180
GTTTAATTTN CTATGTGCTT TTAGGTGTGA ATCCAGATAT GCGGTCTTAA TTCCTTTGGA 240
AATACACAGT TCGTTTAGTT ACTGTACACT CTGTTTGTTT AATAAACTGC ATATCANCTT 300
CCNACAAA 308

SEQ ID NO:2648

LENGTH:302

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03085

SEQUENCE DESCRIPTION:

GATCAGCAGC CCCTGAGCGG AGAAGAGGAG CTAGAGCCTG AGGCCAGTGA TGGTTCAGGC 60

TCCTGGGAAG ATGCAGCTTT GCTGACGGAG GCCAACCTGC CTGCTCCTGC TCCTGCTTCT 120
GCTTCTGCCC CTGTCCTAGA GACTCTGGGC AGCTCTGAAC CTGCTGGGGG TGCTCTCCGA 180
CAGCGCCCCA CCTGCTCTAG TTCCTGAAGA AAAGGGGCAG ACTCCTCACA TTCCAGCACT 240
TCCCCACCTG ACTCCTCTCC CCTCGTTTTT CCTTCAATAA ACTATTTTGT GTCAGCTTCA 300
AA 302

SEQ ID NO:2649

LENGTH:302

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03086

SEQUENCE DESCRIPTION:

GATCAGCGAG CTACCANGAC CAGAGACCAA CTCAAGCTAC AGCAGAAGNA TTTTCCCAAG 60
CCTGCTGACC ACAGTCACAT CACCCATCAG CACATGGAAG GCCCCTGGTA TGGACACTGA 120
AAGGAAGGGC TGGTCCTGCC CCTTTGAGGG GGTGCAAACA TGACTGGGAC CTAAGAGCCA 180
GAGGCTGTGT AGAGGCTCCT GCTCCACCTG CCACTCTCGT AAGANATGGG GTTGCTGCAG 240
TGTTGGAGTA GGGGCAGAGG GAGGGAGCCA AGGTCACTCC AATAAAACAA GCTCATGGCA 300
AA 302

SEQ ID NO:2650

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03087

SEQUENCE DESCRIPTION:

GATCCCAGCT GATGTAGACC CTCTCACCAT TACTTCATCC CTGTNATCTG ATGGGGTCCT 60
CACTGTGAAT GGACCAAGGA AACAGGTCTN TGGCCCTGAG CGCACCATTG CCATCACCCG 120
TGAAGAGAAG CCTGCTGTCA CCGCAGCCCC CAAGAAATAG ATGCCCTTTC TTGAATTGCA 180
TTTTTTAAAA CAAGAAAGTT TCCCCACCAG TGAATGAAAG TTTTGTGACT AGTGCTGAAG 240
CTTATTAATG CTAAGGGCAG GCCCAAATTA TCAAGCTAAT AAANTATCAT TCAGCAACAG 300
AAA 303

SEQ ID NO:2651

LENGTH:296

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03088

SEQUENCE DESCRIPTION:

GATCTCAGCT GGAAGTTCTG TTTGGAGCCC ATTTCTGTNA GACCCTGTAT TTCAAATNTG 60
CAGCTGAAAG GTGCTTGTA CTCTAATTC ACCCCANAGT TGGAGTTCTG CTCAAGGAAC 120
GTGTGTAATG TGTACATCTG TGTCCATGTG TGACCATGTG TCTGTNAGGC AGGGAACATG 180
TATTCTCTGC ATGCATGTAT GTAGGTGCCT GGGGAGTGTG TGTGGGTCCT TGGCTCTTGG 240
CCTTTCCCTT TGCAGGGGTT GTGCAGGTGT GAATAAGAG AATAAGGAAG TTCAA 296

SEQ ID NO:2652

LENGTH:291

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03089

SEQUENCE DESCRIPTION:

GATCTNACGG CCAGGCCTCT NTCCTGCTGC TGTTTTAAAT TTTCCCAGGT AGTGGGAGAG 60
AGGAAAGGAG GGAAGGCAAG ATTCTTTCCC CCTCCCTGCT GAAGCATGTG GTACAGAGGC 120
AAGAGCAGAG CCTGAGAAGC GTCAGGTCCC ACTTCTGCCA TGCAGCTACT ATGAGCCCTC 180
GGGGCCTCCT CCTGGGCCTC AGCTTGCCCA GATACATACC TAAATATATA TATATATATA 240
TGAGGGAGAA CGTNTCACCC AGNTTTNATC ATGCTGGAAA GAGTGTATGT N 291

SEQ ID NO:2653

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03090

SEQUENCE DESCRIPTION:

GATCTAAAGG GTGAAAAAT ATTGATACTT CAATATTTCA CTTGCTGCCA GGAAAAACAA 60
AATTCTCAAT CTTTGTAA TGGGAGGAGG ACTTTTGCAT ACATTTTAC TCTTTAAATA 120
ACGACAACGA CACTTATACT GTCATAATA CAATNATGTA TTTCTTGTG GTTTTAATTT 180
TTTTTGTAAT TTTACATAAA ACAGTTATTT TCTATTTTNA CGCAGATAAA TATTTGTGCA 240
TAAATGTAA AAATAGTAA ATGAGAAAAA TAAACTATT ATACAGTAA 290

SEQ ID NO:2654

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03091

SEQUENCE DESCRIPTION:

GATCTGTCCT CAGCTCTGGA CCCAATTCCC CTTACTTCAT TTTGGCAAAC ACTAAGTCAA 60
ATAGTGAAAT GCCTGTCACT ACATAGAACC TATTACCTGG GGCAAATACG AACAGATTGA 120
GTTTCCTTCA TCTTGTTGTA ATATGATGAA ACAGAGACCT GGTAACCTGG TGACACTGTT 180
AAACCCTTTT NGGGATAAAG CCAAATGTAA ATGGAAACAT TAAACAGATA ANTTGTGGTG 240
TTGAGACTTT TCTGAATTGA GAAAAATAAA TGTAATTTTG GAAGAAA 287

SEQ ID NO:2655

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03092

SEQUENCE DESCRIPTION:

GATCTGACCG GCTTCAAGCT CAAGCCCTAC GTGAGCTACC TCGCCCCTNA NGAGCGAGGA 60
GACGCCCTG ACGGCCGCGC ACTCTTTCAG CGAANCNGTG GCGCCTGCCA TCGAAAAGNA 120
CTTCAAGGAC GGTACCTTCG ACCCTGACAA CCTGGAAAAG TACGGCTTCG AGCCACACA 180
GGAGGGAAAG CTCTCCAGC TCTACCCAG GAACTTCCTG CGCTANTGGG CGGGGGAGGG 240

GCGGCCTGCC CTCATCTCAT TTCTATTAAA CGNCTTTGCC AGCTAAA

287

SEQ ID NO:2656

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03094

SEQUENCE DESCRIPTION:

GATCGTGAG GAGGGACAAC GCTGCCACCG NTTGCTGTC AACACGTGCC CCTACGTGCA 60
CAACATCACC CGCAAGGTAA CAAATCGGAA GTACCCAAAA CTGAAAGAAG TGGATGATGT 120
GCTTGGTGGA GCAGCTGCCT GGGAGANTGT TGA CTCTACT GCAGAGTCGT GTCCCAAATG 180
CGAACATCCT CGTGCTTACT TCATGCAGCT TCAGACCCGC TCTGCAGATG AGCCGATGAC 240
CACCTTCTAC AAGTGCTGCA ATGCTCAGTG TGGACACCGC TGGNGGGATT NGGGNCAGGT 300
NTGGCCCAGC TGCCCTNGTG TGTGCTTGCC TTGNCCTCN N 341

SEQ ID NO:2657

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03095

SEQUENCE DESCRIPTION:

GATCCACAAG GTTGTCTGCT AAACCTGCTC CTCCAAAGCC ACAGCCCAAG CCTAAAAAGG 60
CCCCTGCAAA GAAGGGAGAG AAGATACCCA AAGGGAAAAA GGGAAAAGCT GATGCTGGCA 120
AGGAGGGGAA TAACCTGCA GAAAATGGAG ATGCCAAAAC AGACCAGGCA CAGAAAGCTG 180
AAGGTGCTGG AGTTGCCAAG TGAAGTGTGT GCATTTTGA TAACTGTGTA CTTCTGGTGA 240
CTGTACAATT TCAAATACTA TTTTATCA AGTTTAAA 279

SEQ ID NO:2658

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03096

SEQUENCE DESCRIPTION:

GATCTGAATG TNCAGTTCTA GCCAAGGTAG ATTTTACTTT CAACTTTTTC ATCAGTATCA 60
CTTTCTGTGC TTAATATTT GGTGTTACCT TGTCTGTTTT CATTTGTCTA AAATNCTGTA 120
GAGATGACTA AAATTTGACA TAATGGTGTA AATGGATTGT NAAGGTA ACT TTCAGTTGAN 180
GATTAANGCA AGANGCCATT TCCCCATGA CTTTGGTTTT GTTACATTT TNCCCTTTCA 240
GTTAGTATAC ACTACACGTA CTGTAATAAA GTNCAATAN 279

SEQ ID NO:2659

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03097

SEQUENCE DESCRIPTION:

00956

GATCTTTNCT AAAGCAAGGC CTTGAGCAAG TAGGTTGCTG TCTCTAAGCC CCCTTCCCTT 60
 CCACTATNAG CTGCTGGCAG TGGGTTTNTA TTCGGTTCCC AGGGGTTGAG AGCATGCCTG 120
 TGGGAGTCAT GGACATGAAG GGATGCTGCA ATGTAGGAAG GAGAGCTCTT TGTGAATGTA 180
 AGGTGTTGCT AAATATGTTA TTGTGGAAAG ATGAATGCAA TAGTAGGACT GCTGACATTT 240
 TGCAGAAAAT ACATTTTATT TAAAATCTCC TAAA 274

SEQ ID NO:2660
 LENGTH:259
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03098

SEQUENCE DESCRIPTION:

GATCTGCCTG CNTTGGCCTC CCAAGGTGCT GGGATTACAG GTGTGAGCCA CCACCCCCAG 60
 CCGCCTCTAT GCTTTTGGNT TCTTTGATAT ATCTAACTT AAGGTCAGAA CAGAAATTCA 120
 TGTGCTGAAC AGAATGGATT CTTTTTGCAG TACCAATCCA ATTGAATCCT CTTTTTATTT 180
 TCCTGCGTCC TTACCAGTCA CTTTGATAGT GCTAACTAAC CTACACTATG GGGGTTATTG 240
 ATGANTTAAG TATGATAAA 259

SEQ ID NO:2661
 LENGTH:272
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03099

SEQUENCE DESCRIPTION:

GATCTGTGTT TGTAATACTG GTTGTAAATTA ATTTTTTTAA TTCATGAACN AGCGGAAAAT 60
 TTATTAATTA AACTATTAAC CACATTCACC TTGTAAATGA CTGTATAAAA CTNGTNGACA 120
 ATGCACTGAC TTTAGAAAAGA TGTTAATGTG CATAANTNGA GTGTAAATAA NATAGTGTG 180
 ATGTACTGAN ATATGACCTG TATAANNNGT ATTAGTAATT GTNTATGGGG TGTACCTGTT 240
 TATCTGTAAC TGTNATCCAA ACAAATNAAA TN 272

SEQ ID NO:2662
 LENGTH:270
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03100

SEQUENCE DESCRIPTION:

GATCTATCTG GNNTGTGCNT TAGACTNGAT GAGAAGGTGT GAACTCTGCA GAAAGTCTCT 60
 CCTTCATCAC TGAATTCAGT CACTTGAGAG TGACAACTTC AAATGCTAAC CCGATGACCC 120
 CAGAAAACCG TGTGAGATTC GTACCGAAGA ACCTTGTTGGA ATCCCTTTNC TTAGGCCCAA 180
 CCTGGTCGAT AGCTCGAGAA AGANTNTTTN CCAAGGAAAT GTCTCGGATA TGGGTACTGT 240
 ATTTGAAAGC TGTTAGCTTT GTCAACACGN 270

SEQ ID NO:2663
 LENGTH:268
 TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03101

SEQUENCE DESCRIPTION:

GATCATGAAT CAAGCCCTGG AACAGATGAA GACAAAAGCG GATGAGTGAG TTATATAAAC 60
TTACTTCCAT TCTGTTTCGG ATTTTAAGTT TGAGAGACTT GCTAATNAAT CTCCTTTATG 120
TTGTTTTCCT TTTCATTGTT TTTGGATTGT TTTATGTTTG TCCTTTTTTT TCTTAATGTG 180
GATTTTCATTG AGTTGATTTT TTGATAATCT GCAATCTGGA TAATTTGTAC TGCTAAAGTT 240
TTAATAAACT CGACATGAGA AAAACAAA 268

SEQ ID NO:2664

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03102

SEQUENCE DESCRIPTION:

GATCAAAATA GTAATAAATC AACAAATAAT TTTTGATTGA CTGGTGGAAT TAGATTTACT 60
AAATAAAAAT GGCTTAAATT TTGACTGTAC TAACTATAAA TGTAATGAAT TATAATAATT 120
ATAAATGGTA TAAATGCATT CTACAATGTG ATTATTTTCT GTATTTTAGT ATATAGTATA 180
AAATGGAATT ATTGGGTAA AGTACTTTTA TTACATTTCT TAATCCATTG TTTTACCTA 240
ATAAAATTC CTCCTCTATA TTCCAAA 267

SEQ ID NO:2665

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03103

SEQUENCE DESCRIPTION:

GATCCGAATC TGTGCCCAGC GCTAAAGGCT CAGTGTTAGC ATGGCTTNNN CTGNCCGGTG 60
TGCCATATTC TTGTTGGAGA TGAACCGTAG CACCAGAGCC CATTCTTCCT TGTCAGTCTT 120
GGCCCAAAGA TGTCACCATT CCTAGTTATT TGTCACCACA TAATTGGTGT TGATTGGAAA 180
CTTTTTCTGA GATGGGACAG AACTGCTGGG TTGTCTTTT CCATGTAAC TAAGCATAGT 240
AATATAAATA AAGTAATAGT TGGAAA 266

SEQ ID NO:2666

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03104

SEQUENCE DESCRIPTION:

GATCCTCCCT GTCATGCCAC ATTTCACTGA TTGGAATGTG GAAATGGAAA AGGAATTTAG 60
GATGTGCATT TTCACCTGAG GTTTCCTGTC ATCCCTGCAG TGCCAAAGCC CCACCTTCAG 120
GGACCACCTG GAATGTGTGA GGGGCTGACA GCACAGTAAC GTGCATACAT ATCTGCAGGG 180
CTGGAATGGA AGCTTTAAAG GTGGTAGTGA TTTTNATTTT GGAAGAATCA TGTTACCTTT 240
TTGTAAATA AAATTTGTAC TCAAA 265

SEQ ID NO:2667
 LENGTH:303
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03105
 SEQUENCE DESCRIPTION:
 GATCCAGTGT CCATGGAAAC ATTCCCACAT GCCGTGACTC TGGACTATAT CANTATTTGG 60
 AAAGCAGGGT TCCTCTGCCT GCAAACAAGC CCACGTGGAC CAGTCTGAAT GTNTTTCCTT 120
 TNCACCTATG TTTTAAAGTA GTCAAACCTC AAGAAACAAT CTAAACAAGT TTCTGTTGCA 180
 TATGTGTTTG TAAACTTGTA TTTGTATTTA GTAGGCTTCT ATATTGCATT TANCTTGTTT 240
 TTGTAACCTC TGATTCTCCC TTTNCGGATA CTATTGATGA ATAAAGGANT TAANGTGGAT 300
 AAA 303

SEQ ID NO:2668
 LENGTH:263
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03106
 SEQUENCE DESCRIPTION:
 GATCAACCAA GGCAGATGTG ACAGCAAGGG CCACGGACCC CATGGCAGGG GTGGCGTCTT 60
 CATNAGGGAG GGGCCCAAAG CCCTTGTGGG CGGACCTCCC CTGAGCCTGT CTGAGGGGCC 120
 AGCCCTTAGT GCATTGAGC TAAGGCCCTT GGGCAGGGAT GCCACCNCTG CTCCTTCGGA 180
 GGACGTGCCC TCACCCCTCA CTGGTCCACT GGCTTGAGAC TCACCCCGTC TGCCAGTAA 240
 AAGCCTTTCT GCAGCAGCTG AAA 263

SEQ ID NO:2669
 LENGTH:258
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03108
 SEQUENCE DESCRIPTION:
 GATCTGGCCT AGGTCCCCC TTTNTNCTGT CCCCTGTNTT TAAGTCGGGA TTTTACAGA 60
 GGGAGCTGTC TCCAGACAGC TCATCAGGAA CCAAGCAAAG GCCAGATAGC CTGACAGATA 120
 GGCTAGTGGT ATTGTGTATA TGGGCGGGAC GTGTGTGTCA TTATNATTG AGTTATGCTG 180
 TTGTTTAGGG GTAAATAACA GTAAATAATT AATAATAATA ATAATAATAN TAATAATAAN 240
 GGNGCNGACG TTCTTAAA 258

SEQ ID NO:2670
 LENGTH:257
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03109
 SEQUENCE DESCRIPTION:
 GATCCACCCG CCTCGGCCTC CCAAAGTGCT GGGATTACAG GCATGAGCCA TCACACCTGG 60
 TCAACTTTCT TTTGATTAGT GTTTTGTGG TATATCTTTT TCCATCATGT TACTTTAAAT 120

ATATCTATAT TATTGTATTT AAAATGTGTT TCTTACAGAC TGCATGTAGT TGGGTATAAT 180
TTTNATCCAG TCTAAAAATA TCTGTCTTTT AATTGGNGTT TAGACAATTT ATATTTAATA 240
AAATGGNNGA ATTTAAA 257

SEQ ID NO:2671

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03110

SEQUENCE DESCRIPTION:

GATCAGATGT NGCTCAGAAA CTTTCATTGT TTACCTAATA ATTTAATATC ACTAGTTTCC 60
TAGTGGGTCA AGCAGATGCA AAANCCAGCT TATTTCTTCC TATGTNCTCT CAAGCTTATN 120
GCTTATTNA AAGTAAAANC CTGAAAAAGG AAAATATTAG GTTGGTGCAA ACGTAATTNC 180
GGTTTTGCCA TTGTNGAAAT TTGCCGTTTT ATATTGGAGT ACATTCTTAA NTAAATGTGG 240
TTATGTTATA CATCAAA 257

SEQ ID NO:2672

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03111

SEQUENCE DESCRIPTION:

GATCAATTAC TGTCCTCACT TAGAACAAAG CCTGAGTCCG AGAATATTTA TATTTTACCA 60
ATATATGCCT GTTACAAGAG AAGGAAATAT GAGTTATTTA AGTTTAACTT TTTTATGTGA 120
ATTCAGAGTT TATTTATCGA GGGAAATATG TACAAAGAAG CTTCAAATGG AATATTTACC 180
GACATTCCTT ATACATGACA GACACTNGGC TACATGGGAA GATGATGTTA ATAATAANNT 240
GATTTTTAAN TGGAAA 256

SEQ ID NO:2673

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03112

SEQUENCE DESCRIPTION:

GATCTGGAGA GGATTAGGGA CGGCTCTTGT GGGCACATTT TNNCTCTAGT TTCATGGGTG 60
GAGATGGCAT CTCCNGTGGT CTGCAGCATG CAAGTAAAGA CACCAGGTGG CACCATTNAT 120
NAGCTTTCAA TCCCATGGAG AGGTCCCATC ATGTA ACTNC CAAGAGGTTG AAGGAACCAA 180
CTACCTCTTG CATATTGTNG CTAATGGTTC TNGCCTTCTC CTTCCAGACT TGGGAAATAA 240
NTTTNAAAAT NGTAAA 256

SEQ ID NO:2674

LENGTH:433

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03115

SEQUENCE DESCRIPTION:

GATCTACCTT GGTGATTTGG ACCCTGGTTG CTTTGTGTCT AGTTTTCTAG ACCCTTCATC 60
TCTTACTTGA TAGACTTACT AATAAAATGT GAAGACTAGA CCAATTGTCA TGCTTGACAC 120
AACTGCTGTG GCTGGTTGGT GCTTTGTTTA TGGTAGTAGT TTNCTGTAA CACAGAATAT 180
AGGATAAGAA ATAAGANTAA AGTACCTTGA CTTTGTTTAC AGCATGTAGG GTGATGAGCA 240
CTCACAATTG TNGACTAAAA TGCTGCTTTT AAAACATAGG AAAGTAGAAT GGTGAGTGC 300
AAATCCATAG CACAAGGTAA ATTGAGCTNG TTANGGCAAT CAGGTAAAAT AGTCATGNTT 360
CTNTGTNATG TAANCCCGTA AATGANTGTT CCTGGTTTCN CGGTGGTTTT TTNANGGGNC 420
NCNTTNANNT TTN 433

SEQ ID NO:2675

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03116

SEQUENCE DESCRIPTION:

GATCAGAAGA AAGAAAGACA ACTTTCCTCT GCGCGGAACA CTCACACGGA AGGGCTGGCC 60
GCCTCCCTGA GCCGGCTGGG AGTNGACGAC AGGACCTACC TCCCAGAGC AAGGGCCTGG 120
GGCTTCCCGC CAAAGCTGCC GCGGAACCCC GCTAGTGCGA CCACCCTCCC TCCGTCGGTA 180
TGTCCTGCTT TCCAGCTGAA CCCAAACTAC AAGTGGGTTT AAAAAATAA ACACCACCAC 240
CAAAAACAAA 250

SEQ ID NO:2676

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03117

SEQUENCE DESCRIPTION:

GATCTGAAAA AGATGGTCAT TCCGGACTCC TGACGCGGCC AGTCCCGCGG TGAGACGTGA 60
GCNCCATTGG GTCCAGTGGC CTCNTTTTCC GTGGCAACCT AGTAACCATT AATTTNAAT 120
TAAAGGAGAC AAAAAGCTCG ATGACAGCTC CAGGTCTGCT GAAGATGTCA AGAATCTGTA 180
TTAATATACA GCAAGAGAGC ATAATTGTNT GTCCATCTTC CAGAGCAGCG AAAAATGGAG 240
GGATAAN 247

SEQ ID NO:2677

LENGTH:245

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03118

SEQUENCE DESCRIPTION:

GATCAAAACC ATCCTGGCCA AAATGGTGAA CCCTGTCTCT ACTAAAAATA CAAAATTAG 60
CTGGGCATAG TGGCACGCGC CTGCAGTCCC AGCTACTCAG GAAGCTGAGG CAGGAGAATC 120
GCTTGAACCC AGGAGGCAGA GGTTGCTGTG AGCCGAGATT GCACCACTGC ACTCCAGCCT 180
GGGCAACAGA GTGAGACTCC ATCTGAAAAA AAAAAANTNC AGGCNTGCAA GNTTGGCGTA 240
ATCAN 245

SEQ ID NO:2678

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03119

SEQUENCE DESCRIPTION:

GATCAGCAGG GCTACCATCT CACTCTTCTG TAATTTTACA ACATTCTAAA GGAAGTAAAT 60
CACCAGATTT GCTGATGTAT CAGGGTCCAC CAGACACTGC AGAAATAATA AAAACATTAC 120
CTCAGNAATA CAGNAGGAAA CTTGTGTCTC AAGAAGAAAT GGAATTTATC CAACGTGGAG 180
GTCCTGAATA ACCATGGTGG CTGCTGTTTG TCATCAGACA NTAGAATTGT CTTTACAATA 240
AAGGNCTTCC AAAATGGCAG ATGNGAAACT GTATATTAAA CACCTTTAGT AANTANTATG 300
GANNAAGTGN NATNTAGGNN ATTTAGGTGG TCCCTNGGAT TNCCGNN 347

SEQ ID NO:2679

LENGTH:242

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03120

SEQUENCE DESCRIPTION:

GATCTGGCCT GGAGAGGCCA TCCTATACCC CTTATTAGAG CCATGACAGC CTACAGAGTG 60
AGGTGAGGTG CTCCCACCTT CCCAGATGGT TCCTTTCTGC CCCTTCCTGG AAGGAAAGGT 120
GAGGCTGCCA ATAGCCTCCT GGCACCAGCC AGACCTCACC CTTGACCAAC CTCTCGGGGC 180
TGGGGGTTCA TTCCTGGGGC ACTGTGGCCT GGTTTTGCTT TGAAACCAAG AAAGAGCAAA 240
GN 242

SEQ ID NO:2680

LENGTH:411

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03121

SEQUENCE DESCRIPTION:

GATCCCCAAC AATGTGAAAA CGGCTGTCTG TNACATCCCA CCTCGGGGGC TAAAAATNTC 60
CGNCACCTTC ATTGGCAACA GCACGGCCAT CCAGGAGCTG TTCAAGCGCA TCTCCGAGCA 120
GTTACAGGCC ATGTTCCGGC GNAAGGCCTT CCTGCACTGG TACACGGGCG AGGGNATGGA 180
CGAGATGGAG TTCACCGAGG CCGAGAGCAN CATGAATGAC CTGGTGTCCG AGTACCAGCA 240
GTACCAGGAT GCCACAGCCG AGNAGGAGGG CGAGTTCGAG GAGGAGGCTT AGGAGGAGGT 300
TGGCCTAGAG CCTTCAANTC ACTGGGGAAA AGCAGGGGAA GCAGTGTNGA ACTCTTTTAT 360
TCACTTCNA GNCTGGTCCN NGTNGGNCTN GTTCCCACTG TGTGCAATTG N 411

SEQ ID NO:2681

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03122

SEQUENCE DESCRIPTION:

GATCTGCGCA CGGTGCACAG CCCACCAGAG CACTACAGCC TTTTATTGAG TGGGGTGGGG 60
 CAAGTGCTGG GCTGTGGTCG TGCCCTGACA GCATCTTCCC CAGGCAGCGG CTCTGTGGAG 120
 GAGGCCATAC TCCCCTAGTT GGCCACTGGG GCCACCACCC TGACCACCAC TGTGCCCTC 180
 ATTGTTACTA CCTGTGAGA TAAAACTGA TTAAACCTTT GTGGCTGTGG TTGGCTGAAA 240

SEQ ID NO:2682

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03123

SEQUENCE DESCRIPTION:

GATCACCTGG GGACAGAGGT GAAAGGCCTG CTGGGCCTGC TGGAGGAGCT GGCCTGGAAC 60
 CTGCCCCCGG GACCCTTCAG CCCCGCTCCC GACCTTNTCG GAGATGGCTT CTNAGCCCTG 120
 GAGCTGGAGC CCAGCAGTTG GAGGTGGTGC ACCTGCCAGG CAGCGCCAC AGAACCAGCC 180
 CTGTCCTCTC GACTTCCTTC CTTAGCTTCA TGTGAAATAA AAGCTATTCT GGTCAAA 237

SEQ ID NO:2683

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03124

SEQUENCE DESCRIPTION:

GATCGGCATG GTCATTACCT AAGTGGAAGC CAAACCCTCT GTGTATTTCA TCAAGTTTGA 60
 TGATGATTTT CATATCTATG TCTACGATTT GGTGAAAAAG TCCTAACTGT TAGGGTAAAA 120
 TTTGGCACAT GTGTGGAAC AAATGTATAA TTTGTAGACA TGCAAAAAAT GTGCCTTTC 180
 AGTGTATTGA AAGCTTATGG AATCCCTGAT AACTAAACAT CTTGCCAGC ATTAAA 236

SEQ ID NO:2684

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03125

SEQUENCE DESCRIPTION:

GATCACACAT ATCCTTCCTG AGANGAGCAG TGACTAAAAT GGAATATCTT TTAAGANCA 60
 GCTCCTCTTT AACAAAAAN CTAAAAAGAC AAATGTGAGA TGGGCTTAGA GTTAGTNCTC 120
 TGGGAACCTG AAAGACATTT ATGCCATATT ATTTATNCAC GTGTTGTNC CTGGTGGGCA 180
 AGATGCCATC TGAGGCTTCA GATGAGAAAT TGGGGTAANN TGGAATTTT NCACTN 236

SEQ ID NO:2685

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03126

SEQUENCE DESCRIPTION:

GATCAATCCC TCAAGATTTT GAAATCCTGA AGAAATTGAG AAGTATGTTG CTGAAATTGA 60
AAANGAAAAA GAAGAAAACG AAAAGAAGAA ACAAAGAAA GCATCATGAT GAATAAAATG 120
TCTTTGCTTG TAATTTTAA ATTTCATATCA ATCATGGATG AGTCTCGATG TGTAGGCCTT 180
TCCATTCCAT TTATTCACAC TGAGTGCTCT ACAATAAACT TCCGTATTTT TAAA 234

SEQ ID NO:2686

LENGTH:230

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03127

SEQUENCE DESCRIPTION:

GATCTAGGCC TGGCAAGANC TCTGGCCCCA AGGCCTCCTC TTCCCAGGGG CTGCCAAGTC 60
CTGGCCCTGG CCCTGGCATA TNACCCCGNA CTGTGGGGCC AGTCACCACT AGCCTGGCTC 120
AAATATTCCC CAGGGAGACT NCTGTGTGCT GCCCGGCTNC CTGCTGGCTC TCCCCAGNC 180
CCACATCCCN TCTNGAAGAG AATGTAAAAT AAACCTGGAC ACAAGGGAAA 230

SEQ ID NO:2687

LENGTH:232

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03128

SEQUENCE DESCRIPTION:

GATCCATGAG GTCCTAGCCC CTGGCTGCCT GGATGCNTTC CCCCTGCTCT CAGCATATNT 60
GGGGCGCCTC ANTGCCCGGC CCAAGCTCAA GGCCTTCCTG GCCTCCCCTG AGTACGTNAA 120
CCTCCCCATC AATGGCAACG GGAAACAGTG AGGGTTGGGG GGACTCTNAG CGGGAGGCAG 180
AGTTTGCTTT CCTTCTCCA GGACCANTAA AATTNTAAG NGAGNTACTA AA 232

SEQ ID NO:2688

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03129

SEQUENCE DESCRIPTION:

GATCACAAAA TGTNATAAAA CTTTAAATGT ATAAACTTT ATCAAATAAA GTTTTATTTT 60
CCCCTTTAAA ATGTATTTNT TTAGAGGCAT TACTTTTTTA AAAATATTGG TCAATTNCNG 120
ACATAAGATG TGAGGTTTAC AGTTGTATTC CAGTATTCAA GATAGATTCC TGATTTTCCA 180
ATTAGGAAAA GTAAAATCCA AAATGTTAGC AAAACAAAGT GCAATATTN 229

SEQ ID NO:2689

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03131

SEQUENCE DESCRIPTION:

GATCCCATGC CCAGGTGTCC AGCAGACCTC AAGGCAGAAG GGTCACCTAA CCCAGGAGTC 60

CACAGACTGA TGTGACCTCA GGTTCACACA TCANTGGCCA CAGGGCAGGG CCCACCTGGT 120
AGAAGTTTTC TGGATATGGC CAGGGTGGGT GTNTGGCTAA NTGGGCCTGA ACAGAGGGAA 180
CCTAGGGCCC TTGGCCAATG TGATTAAAGC TGCCATCTTG AAA 223

SEQ ID NO:2690

LENGTH:222

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03132

SEQUENCE DESCRIPTION:

GATCCGCCCT GGAGAAGTGA GTGGCTGAGA CCCGGGTGGG GCCCTCCTAA CCTTGGNTCT 60
GGGGGCTTCC NTTCTGGGTC TTGTCCGGGA TATGGCCTTC CTGAAGGTCT TACCTCCCCC 120
AGCCGCCCTG CACTTGACCA CCAAAGCAAT CTCTAAGCTT ATAAAGGAGA AACATGTATA 180
TATGGGGTTT TTTGGAGTAA AGGAAAATTC TAAGATATTA AA 222

SEQ ID NO:2691

LENGTH:222

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03133

SEQUENCE DESCRIPTION:

GATCCACCTG CCTTGGCCTT CCAAGGTGTT GGAATTACAG GCGTGAGCAA CCGCGCCTGG 60
TCTATATGTN ATTTCAAATN AGGTGGCCTT ATAAATATAA GCAGATGGGT TTCTGGGCAA 120
AATCAAATNA TTTCTGTCTC TATTTNNTTG AGTACCAATT GTAAAANCTG AAATTAGGTT 180
GAGGAAAGTN CTTTAGAAAT AATAAGATG TACAANTACA AA 222

SEQ ID NO:2692

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03134

SEQUENCE DESCRIPTION:

GATCTGCCCC CCTCAGCCTC TTGAGTAGCT GGGACTACAG GTGCATACCA CCACACCTGG 60
CTAATTTTTT AATTTNATT TTTATTAAAG ACAAGGTCTC ACTATGCTGC CCAGGTTGGC 120
CTCCCAAAGT GTTGGGATTA CAAGTGTGAG TCACCGTGCC TGGTCCCATG TACTTGANGT 180
CATCACTANC AAAATGTATA GATATTGTAT AATGGCAACN 220

SEQ ID NO:2693

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03135

SEQUENCE DESCRIPTION:

GATCTTTAAT AAAAATTTGA TATGAAAAGC ACAATGTGCA GANGTTATGG AAAACCTATA 60
GAGGATTACA ACAGGTAAAC GTTAAAGAGA ATACATTGCT GACTTATAGT GATGTGGCTA 120

AGANGTACAT GCTTTGTTGT AAAATTNCTT GAAAGCCCAT TGAAAGATGT ATCTGTTTAT 180
TTACAGTCTT TGAAGTAAAA GTTACCAATG TTTGCCAAA 219

SEQ ID NO:2694

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03136

SEQUENCE DESCRIPTION:

GATCTNGCCC CTGCGTCTN GCCTGGGTGA CAGAGCAAGA NTCTATCTNA AAAATGTTTT 60
TAAAAAATAC TTCCTAGGGA AACACACATT TNGCCCTATT TGGAAC TTG AAAAGTGAGC 120
CCTCCTCTGC CCATGGGCCG TGCTGCTCAG CCTGCCATAC TCGCTTGCTT TGCTGTTTGG 180
NATTTGCCTC CAGAATAAAG GTCCTTTTGT TTGTTGAAA 219

SEQ ID NO:2695

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03138

SEQUENCE DESCRIPTION:

GATCCTAATC CCTTCCTCTC CCATTCACCC TGTGTAACAG NACCCCAAGG ACCTGCCTCC 60
CCGGAAGTGC CTTAACCTAG AGGGTCGGGG AGGAGGTTGT GTCCTGACT CAGGCTGCTC 120
CTTCTCTAGT TTCCCTCTC ATCTGACCTT AGTTTGCTGC CATNAGTCTA GTGGTTTCGT 180
GGTTTCGTCT ATTTATTAAA AAATATTTGA GANCAAAAAA CAAA 224

SEQ ID NO:2696

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03139

SEQUENCE DESCRIPTION:

GATCAAAGTC TTAAGTGTGT TTGCAGCTCA AAAATAAAGA TGTATTAAGG AGGGGAAAAC 60
CTGGTCTAAG TGCAAGGCAC ACTTACAGCG AGTTTTACTT TCGGTTGTAT TTTCTTTGTA 120
TATNATAAAC ATTTATTTAA CTTGTTGCCG TTTGAAGTAA AAAATTTCCA AAATGTATGC 180
TCAACAATAA TCATTAAAAT GTTTTCAGCG TACAAA 216

SEQ ID NO:2697

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03140

SEQUENCE DESCRIPTION:

GATCAAATTG TGTTTAGTAT CACTATCTTC TCTCCTCGTT TCTCTCTTAC TCCTCATCCT 60
CCCAGAATCT ACCAGTTTAT GGTAGAAAGA TGGAACCTT ATTTGAATGT GTTTTTTTTT 120
TCCATGATGT CCAATTTTGT NGTGGGAAAG GATTTGGATA AAANTTTNGT TTAAATTNG 180

GTAGNTTTTN ATCTNTACAA NTTTAANTAA AATNAN

216

SEQ ID NO:2698

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03141

SEQUENCE DESCRIPTION:

GATCTCAAAA GTATTCCTCA GGGTAGTCTC CATTCTGTC ATTTNCCTC CTATTCATGA 60
GACGGAAAAA TTATGACCAT GGTACAGAGT TGTATCAAGG AAATGAAGAA CTAGAACATT 120
GAATTGAAAG GTTTTGAAAG GGTCACAAT TTCTTTTCAT TTNCTATTAA TGTCTTCTTT 180
TAAATNCTCT TAAGAATAAA ACTTTTTTCT AATAAA 216

SEQ ID NO:2699

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03142

SEQUENCE DESCRIPTION:

GATCAGCAAA CAGGAATACG ATGAAGCCGG GCCTTCCATT GTCCACCGCA AATNCTTCTA 60
AAACACTTTC CTGCTCCTCT CTGTCTCTAG CACACAACG TGAATGTCCT GTGGAATTAT 120
GCCTTCAGTT CTTTTCCAAA TCATTCCTAG CCAAAGCTCT GACTCGTTAC CTATGTGTTT 180
TTTAATAAAT CTGAAATAGG CTA CTACTGGTAA A 211

SEQ ID NO:2700

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03145

SEQUENCE DESCRIPTION:

GATCACGAAC ANTAGCTTGC GCTCTACTCT GTAGTTATGT GGATTGCCGA GCAATNACCC 60
TTTTCAATNT CTTATTTCTG TGTTACTGAG GACCCTAATC ACTTAGGGAT GTAATTTTAT 120
AGTATAAACT TTCTGNACAG TTTTNCTNAT AGTCTAATAA GTAAAAAGTG TCCNNCAAAT 180
TATGATAATT GCCTATGGTA CATGGATAAN TTAANGCACT GCACACGGTG TAAANN 236

SEQ ID NO:2701

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03146

SEQUENCE DESCRIPTION:

GATCCATTTT TNACACACAC TGCCAGAGAT ACTCTAGGCA TGTAAGCAC AAACATACAT 60
ATAAAANCTG CGGGCTTCAA AAAATATAAG TAGGATGTCA TCTATACTGT CATACTTTT 120
GTTTTTTATC ACTTACTTAA TGTTATATCT NGGATATTGT ATTACCCTGG GTATTAAAAA 180
GAACTCCTTT CACATTTTAA AATAAA 206

00967

SEQ ID NO:2702

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03147

SEQUENCE DESCRIPTION:

GATCTAAAC TGGGGTTTGG GGGAGGGTTT CANCCTCTCC CCACTCCNCT TGGCCACAC 60
CCTTTACTCC CCAGCCCAGA GAGACGCTGC TTTTACCAGG AAAGACTATT GAAAGATGTT 120
TTATATTATT TTNCTCTGAC CTTTCCATCC TTGAAAAAAT GGGGAAAAAA GAAGAAAAAA 180
GACAAAATCG ACCATAAAAG ACCAAA 206

SEQ ID NO:2703

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03148

SEQUENCE DESCRIPTION:

GATCTTGTTA ATGCATTTTT GATGGGAAGA AAAGGTACAT GTTTACAAAG AGGTTTTATG 60
AAAAGAATAA AAATGACTT CTTGCTTGTA CATATAGGNG CAATACTATT ATATTATGTA 120
GTCCGTTAAC ACTACTTAAA AGTTTAGGGT TTTCTCTTGG TTGTAGAGTG GCCCAGAATT 180
GCATTCTGAA TGAATAAAGG TTAAA 205

SEQ ID NO:2704

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03149

SEQUENCE DESCRIPTION:

GATCCTGAGG CTTTGATGCT ATTTTNTTAA TCCAGCTGGT CTGTGGAGAA GCCTGGGACA 60
GAAAGAAGCA GCCAGACTCC AGAATCCCCC ATTTTAATAG CTATNNNATG CTATGTCCCC 120
GTCTTATTCC TGGCAACTTA CCTCTCAGCT CGTGCACTGT GACATTACAG CAAGAAGTAC 180
TAATATAAAT GACACAAANG AAA 203

SEQ ID NO:2705

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03150

SEQUENCE DESCRIPTION:

GATCTGAAAA AAATACGGTT GAAAGTGGTG CAGGTAATTA CAATGTGTAG GCAAACCAGA 60
AAACCATGGC TTAAACCAGC AGCTTTTGTN AGAAATNATT TCTCCAATGA NTGTAGAAAC 120
GTTTGCNGCT GAATTGTGAC CTTNCCATTT NACCTGCTTT TCCTGCAAAG TATATTTNNC 180
AGACCCAGGC AGTGCTGCTC GCN 203

SEQ ID NO:2706

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03151

SEQUENCE DESCRIPTION:

GATCCAATGC TAAACTCCAA TGGTTCAGTG ACTGTGGTTG CTCTTCTTCA AGGCAGCTGA 60
TACCTGTGCA TACTGCAGGC ATCTAAATTA GAAGACCTGC GAGTAAACT GAAGAAAGAA 120
GGATATTCTA ATATTTNTNA TATNGTTGTT AATCATCAAG GNATCTNTTC TCGATTAAAA 180
TNCACACATC TTANGAAA 198

SEQ ID NO:2707

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03152

SEQUENCE DESCRIPTION:

GATCCATAAT TCCTATTCAA TGAACATCAT TGTTGGTGGC TGAATACATT TTGGAAGAGA 60
GTTTTTCATC TTAGAGATTG GTGAACAAGT GTGAGGGTGT GAGAACTCA CAGAATACAA 120
ATTTGCCTGT ATGTTTTGTG GGTTTTTTTT TTCCCCTTCA NGATGTTTNC TATTNCTAAN 180
TTAANGTAAT TNCAAGGTAA A 201

SEQ ID NO:2708

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03153

SEQUENCE DESCRIPTION:

GATCTATTAG TTTAGTGTTT ATNAAAGAAT CAAATGTATA GAATTACCAA GCATTCGTGG 60
GGAATNCTGT GTAGCAAATG TAAACTNAC CTGCTCGGAA GAAACGTAGG ANCGCTTCAA 120
ACCCACTGTA ATGTTTGGTT TGANNTTATT TCCATTGCTT TNAGAGTGAN CTGCCTAAGN 180
GTAGGCCTTA TAATAN 196

SEQ ID NO:2709

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03154

SEQUENCE DESCRIPTION:

GATCTACAAG NATTTTCTTT TAGTAGTTAT ACAAAGANT ATTACATTTA TTGGTCTGTA 60
CAGTGTAATA AACCAGCAAT AGGGACAACA ACAAAGAGAA TCTAAGAAAG ANGACTATGC 120
CTAANTATAG GGAAAGTTTA GAGAATCATT TTTAGACAGG ACACATTTTG CAGTAGTGAA 180
TGTGGTAGGT TTN 193

SEQ ID NO:2710

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03155

SEQUENCE DESCRIPTION:

GATCAGTGTT GCAACATANT GNAAAAGATG GCTACTGTGC CTTGTGTTAC TTAATCATAC 60
AGTAAGNTGA CCTGGAAATG AATGAACTA TTAATCCTAA GANTTACATT GTATAGCCCC 120
ACAGATTAAN TTTAATTAAT TANTTCAAAA CATGTTANCC GCNACTTTCA TGTACTATGG 180
AAAAGTACAN GTN 193

SEQ ID NO:2711

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03156

SEQUENCE DESCRIPTION:

GATCTCGAAC CCTGTCTAGA AGGAATGTAT TTGTTGCTAA ATTTCGTAGC ACTGTTTACA 60
GTTTTCCTCC ATGTTATTTA TGAATTTNAT ATTCCGTGAA TGTATATNGT CTTGTAATGT 120
TGCATAATGT TCACTTTTTA TAGTGTGTCC TTTATNCTAA ACAGTAANGT GGTTTTATTN 180
CTATCACACA AA 192

SEQ ID NO:2712

LENGTH:386

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03157

SEQUENCE DESCRIPTION:

GATCCAGAAAT NGAGACTGGA CCTTCCAGAC CCTGGTAATG CTGGAAACAG TTCCTCGGAG 60
TGGAGAGGTT TACACCTGCC AAGTGGAGCA TCCAAGCATG ATGAGCCCTC TNACGGTGCA 120
ATGGAGTGCA CGGTCTGAAT CTGCACAGAG CAAGATGCTG AGTGGAGTCG GGGGCTTTGT 180
GCTGGGCCTG CTCTTNCTTG GNACAGGGCT GTTCATCTAC TTCAGGANTC AGAAAGGNCA 240
CTCTGGNCTT CAGCCANCAG GACTCTTTGN GCTGAAGTGC AGGTGNCCAC GATTCAAGGG 300
ANGAACCTTC TTGNCCCANG NTTTTCAAGA TGGAAAAGCT TTCCCCAACT TTGGNTTCTT 360
NTTNTTCCC ACCAAAGAAN CTTNAN 386

SEQ ID NO:2713

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03159

SEQUENCE DESCRIPTION:

GATCTTCCGG AAAAATAAG CCCCTCCTTC ACCCCCGCAC ACCTGCATCC CTGCCGGAGT 60
CNTGNTGAGG CACGAACCCT GCCTCCCTAG GCCGGACCTT GTGGACGACA GCCCCACCCA 120
GTCTGTGCTC TCAGCCGCTG GCCGAAGGCC CAGCCTGCTC AGAATAAAGC ATGTCCTGCT 180
GCCGGCAAA 189

SEQ ID NO:2714

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03160

SEQUENCE DESCRIPTION:

GATCCCATAG TTTTACATTT TNCCTGTTTA TTTTGATTTT TTNCACTGCT TTATTTCTTA 60
AAGTNCTAGC ACATCTGTNA CTCCTCCACT TCCACATTTT TNCCTGCTT ACACTTACGT 120
GCAATCTTAT TCCTNGTCTG CACACACATG TGGAAAGCTA GAAATAAATG TTAAACTNA 180
CTTTTAAA 189

SEQ ID NO:2715

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03162

SEQUENCE DESCRIPTION:

GATCAAATCT CTCCTGGCTG TAGTAACCCA GTGGAATGAA TTTGGNCATG CCCCATGCT 60
TCTATATGCT AAGTGAAATC TGTGTCTGTA ATTTGTTGGG GGGTGGATAG GGTGGGGTCT 120
CCATCTACTT TTTGTCACCA TCATCTGAAA TGGGGAAATA TGTAATAAA TATATCAGCA 180
AAGCAAA 187

SEQ ID NO:2716

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03163

SEQUENCE DESCRIPTION:

GATCCAAGGG CACAAGGAGA TGAGCAAGGT GTGGAACGAC CTGAGGCCCA AGCTCAGCTG 60
CCTCTTTGCG GGACCACACA GCACCCTGAC CCCACCGTGC TCCNNGNCGG AGGACGGCCT 120
GTGTCCTCAN TAGCGCCTGA GGCTGNGGTG GTGCTCCCTG CGGNCGCACT AAAACCTCTT 180
TNCNAAA 187

SEQ ID NO:2717

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03164

SEQUENCE DESCRIPTION:

GATCCTCCTG TTTACCCTGT ACCTCCAATG TCTGGCACTT GTAGGTGCTC AAATATTCGT 60
TGAATGAATG AAAAATCCAT ATTGTAATTG ATGTCCTCTG GCCACATAGT TTAAAAATTA 120
GGTGATTGAT TATATGACCG AATAGAACTA TCAAAATGTTT TCCTAATAAA GTCAATATTT 180
CAAAACAAA 188

SEQ ID NO:2718

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03166

SEQUENCE DESCRIPTION:

GATCTGCCCC CCTCAGCCTC CCAAAGTGCT GGGNTTACAG GCATGAGCCN TCGCGCCCGG 60
CCGGATTTTT TTTTTTTTG ATTCAGCTTA TACCAGGGCT GAAAACCTCA NTTTATGTTC 120
ATGACAGTNG GGATTTTTTT AAATGCCTAC ATTCTTCTA ATAAACTGTT GGAAGACNTT 180
AAA 183

SEQ ID NO:2719

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03167

SEQUENCE DESCRIPTION:

GATCCAAGTG GCCCAGCAGA AACGGAATTN TNGTNAAAAT GACTGATTCT GGTGCATGTN 60
AAAGGCTCTG GGGAATNAAT ACCTGTTTGG TCCAAACTTA CTGTATCATA ATGCTGTATA 120
TGTNGAAAAC GTAATACCTG TNAATGTCCT AATGAATCAN GTTTGCAGA AAACACCGTA 180
AA 182

SEQ ID NO:2720

LENGTH:181

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03168

SEQUENCE DESCRIPTION:

GATCCTCCAT TGGAGTGGCC CAATCTTTCC TCTAGGGCAA TCCTGAAAGC CCAAGGCCCT 60
TCNCAGTCTG GCCTTGGCTT CAGCTGGAGA AGGGTAACAT CAGTCATTGT CAAGGCACCN 120
CCANCCCGA CAGACCGTGT CTCTGATAAA GGTTTTGAAG TGATAAAGTT TTAAACTAA 180
A 181

SEQ ID NO:2721

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03169

SEQUENCE DESCRIPTION:

GATCCTCACT CCACTGTCAT GTTTGAAAGA GGTATTGGTG TTCTGGAGTG GGGGTCAACC 60
CCTCCCCAGT CTCTGTGCTA AGTTCACTTG GGAGGATGGC AGTAGGAGCC AGGGCTGGCC 120
ATGGGTCCCC TACGCTTNCC NNTAGGATAT ACCCTGGAGA ATGGCAAAAT GATTTAA 178

SEQ ID NO:2722

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03170

SEQUENCE DESCRIPTION:

GATCCTAAGG CAAAGAGGTG TTTTCCTTC TGGTTGATTC ATCCCAAAGC TTTCCACCC 60
AGGTTTCTC TGAAAGCTTA GCCTTAAGAG AACACGCAGA GAGTTTCCCT AGATATACTC 120
CTGCCTCCAG GTGCTGGGAC ACACCTTTC AAAATGCTGT GGAAGCAGG AGCTGGGGAG 180
CTGTNTAAG TCAAAGTAGA AACCTCCAG TNTNTGGTGT TGTGTAGAGA NTAGGNCATA 240
GGGTAAAGNG GCCAAGCTGC CTGTAGTTAG TAGAGAAGAN TGGGGAN 287

SEQ ID NO:2723

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03171

SEQUENCE DESCRIPTION:

GATCACCATG ACTGCAACAT GGTATATATT CATGCTGCCC TAGAACTTT TGTAATTATT 60
TGTTGCAAAT TTGTGACTGT CCTTATTAAC TTTCTTTNAT GTAAGTAATT TGTAAGTT 120
TCTNAAATT TTTGCTTTTG CTTATTTAAT TTTNAATAAA AGCTAAATTC CTAATAAA 178

SEQ ID NO:2724

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03172

SEQUENCE DESCRIPTION:

GATCCTGGAG CCCCCGTGTC GGGGGGCGAG GGNGGGGCGG TGNCCGACGA GTTGANCTTC 60
TNAACATGAG TGTCAACTTC AGGACTTGCT TCCAAGCCCT TCCCTCTGTT GGAAATTGGG 120
TGTGCCATNN CTCCAAGGN AGGCCCATGT GACTAATAAA AACTGTGAA CCCTGAAA 178

SEQ ID NO:2725

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03173

SEQUENCE DESCRIPTION:

GATCCTTTTG AATTTGCAC AGCCCTAGAT ACAATCCCTT TTGATAAAAG GGTCTTTGCT 60
TCTNATTACA GGAGCACTGT GGAACGTCTG TAAATATGTT TTTATAATTC CATGTATAGT 120
TGGTGTACAC TCAAAACCTG TCCCCGGCAG CCAGTGCTCT CTGTATAGGG CCATAATGGA 180
ATTCTGAAGA AATCTTGGGG AGGGAAGGGG AGTTNGAACA AATGTCTGTT CCCTGGGAGG 240
CCAGTCCAGT GCTCAGACCT TTAGACTCAT TGTAAGTTGC CACTGTCAAC ATGGGACCAA 300
AGGTGTGTGA CTAGTCAATG AAAGTGCGGN CANATTN 337

SEQ ID NO:2726

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03175

SEQUENCE DESCRIPTION:

GATCCAAAAC ACTCAATCCT CGTAAAAGGG TACAGGTCCT ATTGTATGTT AACACACGTG 60
ATGATGTGAG CCATGTGAGA TGANCAATCA CCAGTTGTTA TGTTCGAATC TCCTTTGTGT 120
TGGGCCGCTT TAATGTCAGG GTTTCATAA ATAAATGAAT TTTCATATAC TGAAGTGAAG 180

SEQ ID NO:2727

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03176

SEQUENCE DESCRIPTION:

GATCTGAGCC AGGATGGGAG TGAATCCCAG GCGGAGGCCA GAGCTGGCAG CCAGCTCTGC 60
CTTCCACTG CCGGGAGTGC TGGGGGCCCA GCCTGGCCCC CNGAAGAGAC AGCCAAGTGT 120
CGTCCACATA CTCCTCCCAG AGTGAGCTCT AACCAGGCTC ATTTGCTCTN TCCAN 175

SEQ ID NO:2728

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03177

SEQUENCE DESCRIPTION:

GATCCTGTTN CCNACCTCCT TCTCCTCCCC TGTACTCCCC AGTGCCTTCC ATTGTCCTGG 60
TGGAGCTGGG GTTCTCTCTC TCCCCAGTCC CACAACACTG CCAAAAATCT GTGTATGTNC 120
CATTGGGTGG GGCAGCCCCA AGCCTCCTGG GGAGGCAGGG CAAAAACAGG TGCCN 175

SEQ ID NO:2729

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03178

SEQUENCE DESCRIPTION:

GATCAGAGGA AAGATGAGAA AGAGAACAAG CATACTATC TNACTCCTTC CAGTGGTCTC 60
TGTTCCCTCC GTCTCCTGGA CCACGGCTAG AGTTCCAGT TTGGCCTTTT GGGGCATTCA 120
TCCCATCTAC TTTATTTTCA TCTGCTTGGG CAGTAATGTA AACAAATTAA AGGN 174

SEQ ID NO:2730

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03179

SEQUENCE DESCRIPTION:

GATCGTCTGG GAGCCCAGTG TCAAGTCTGC TGGAATGCAG GAAGTAGAAC AGAATCGCCA 60

CAGGACTGTT CTGGGGCCAG GTTCCCTTAA CTCTGTAGCC TGGCAGTCTG ACCCAAAGTT 120
GCCCTCACCC AAAGGTTCTG GCTCTTCCCT CCCTCACTTT TACTTCCCT TCCCCATAA 180
GTTGGAGGAT AAAATGGGTA TCAATGNTAA TTTTCCAGG GNGNCCATGN NNACCAGCGG 240
TTTCTNNCTN TCTCTGTAAT CTGCTATGNA N 271

SEQ ID NO:2731

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03180

SEQUENCE DESCRIPTION:

GATCTNCGGN CTGTCGTTAG CAGGCTTAAT NAAGAACACT TCTCAACAGT TTCCTTTTNN 60
TNTTCCTTTA TAATTCACCTA AAATAAGCA TCTATTAGTG TCTGATTAG GAATGTAAAA 120
TAATTCTNTA TTAATGTAAA TAAGATTATC TATTGCAAAA NGATATTTC ANCTAAA 178

SEQ ID NO:2732

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03181

SEQUENCE DESCRIPTION:

GATCTTACCA AAGAGGTCAA CACATGGGAC CTTTGTGTCA CATGAACCAT TTTTTTCCT 60
CTTCTATTAA GTGTATTNT GTTTAAGNTA CAGTTCTCTA AGAGAATTAC AATGTTTGTC 120
CCATTTCTAA GGGCTTCTNT TCAACTCTAA TAACAGCATT ATTCACGTTA AA 172

SEQ ID NO:2733

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03182

SEQUENCE DESCRIPTION:

GATCAGGAAA CGGCAACAAG CCTCCCAGTA CTGACCTGAA AACTTGTGAC AAGAAGAACA 60
CCAACAAGTG CTCCCTGGGC TGAGGACCCT TTNTTGCCTC CCCACCCCGG AAGCTGNACC 120
TGAGGGAGAC AACGGCAGAG GGAGTNAGCA GGGGAGAAAT AGCAGAGGGN 170

SEQ ID NO:2734

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03183

SEQUENCE DESCRIPTION:

GATCTGGATT TATGTATTTG TNAGATACAT ACGAATTGTT AAAATGGAAT GCAAGTTTTT 60
CAAAAGCCCA GGTCTAAATG TAATGGTTGG TTTATNGTNC TATAACCCCA GCCCATCATT 120
TCCTGTGTAA ATCATAAACA ATAAACAGAA TATACTCGGT GGCCATTCT AATAAA 176

SEQ ID NO:2735

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03185

SEQUENCE DESCRIPTION:

GATCCGCCCA CCTNGGCCTC CCAAAGTGCT GGGATTGCAG GCGTGAGCAN CCGCACCCGG 60
CCTCCTGAAT TAACATTTTC TAAAGATGCC TCCGGCGTGC TATCCTGAAA GCTGCCAGAG 120
GTGTCTTGGC TGCATTGGTG GTAATAAAAT TCATACTCAT AAA 163

SEQ ID NO:2736

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03186

SEQUENCE DESCRIPTION:

GATCTCAACT ATGTNCCACT AAAGGCACAG GAATGGAAAA CTGAGAAAAG ATTTATTGGC 60
CTCACCAATT CCTTTGGTTT TGGTGGTACT AATGCAACAC TTTGTATTGC TGGNCTGTAG 120
AACATATANT TNGTAATNAA ATACTGATT TNAATGTTA AA 162

SEQ ID NO:2737

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03187

SEQUENCE DESCRIPTION:

GATCCTGCCA CCCTGTAGCG CCAGTNTAAT CCCCCAGGAG AACATCTTTG AACTCTGCA 60
GACTGCTAGT GTTCTGTCTA AAAACCAGAC AAGGAAATAC CCTTCTTTTA TGAGCAGAAG 120
GAAACAAAAA AAAAAANGAG GCCCNTTNC CTGGANGAAA 160

SEQ ID NO:2738

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03188

SEQUENCE DESCRIPTION:

GATCTGCCTT ATTGCATATN CCATGCATCA GATAATGGAT GCATCAGATA ATGGNGTTAG 60
ACAAAGCTTC ATTGTGAACA ACCTAATGCA TTTNNGAGAA ACANTCTCAT CACATTTTTC 120
CTAGCCTTNC CTACATTTAA NCTTGCTGTT GCCCAAATN 159

SEQ ID NO:2739

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03189

SEQUENCE DESCRIPTION:

GATCAGANGT TTCACCTGTT TCTCAGTTAT TGGATATGTA TCTTTGTGTA CATATCTTTG 60
 CAAAANTGGA TAAGTACAAA NCTTGATGTA AATNGTACCA ATGANTATGT AAACATACAG 120
 TGACANCATT AAACCTAGAA AAGTTTAACT ACTTAAA 157

SEQ ID NO:2740

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03190

SEQUENCE DESCRIPTION:

GATCCACTGG AATTAGCCAA TACACTATAT AACAACTATA TTAAAGTATT TTTTCCTGGA 60
 ATATAATTGG TATATGTCTT CCACTTTCCA TCATGTATGT AAAATTTTCAT AGTAAAACTT 120
 CCTGATAGTT TCAATAAAGA AATNATCTGC AAA 153

SEQ ID NO:2741

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03192

SEQUENCE DESCRIPTION:

GATCTTNAAT GCTTTGGAAA TCGTGTAAC AGTACTGCAA TAATCACAGC TCTGGGAAAA 60
 ACAACGAAAC TTTCCCTTGT GGAGAGGAGG GATTTCCCTG CTCTATATAA GCAACATATT 120
 TTNAGACATT AAAATATGGT ATNCNNNNCC N 151

SEQ ID NO:2742

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03193

SEQUENCE DESCRIPTION:

GATCTTNCTN ATCCAAGCAA TAACGGGACG AGGGAGCCAG GGCCAAGGAC ACTCAGGGAC 60
 ACTGTTGGGG CAGCGGCCCC ACATGGTAAT GTTTTNTTTA GAGAGAAGAA AAAACAACCTG 120
 GCTGTAAACG TAAATNATAT TTNTTGAAA 150

SEQ ID NO:2743

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03194

SEQUENCE DESCRIPTION:

GATCGTNTTT TTNCTTGTTA AATAATTAAA ANTCATCTTA AAATTCATAC TTTGACTTTA 60
 ATTTAGACAC AAGGAGATGT AATCNCTGTG TAACATCAGA GAAAGCTATA TGGATTATNG 120
 TCAGANGTAA ATGTTTCTAA CATTGACAAA 150

SEQ ID NO:2744

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03195

SEQUENCE DESCRIPTION:

GATCGAGTTG GCCGAGGATG GATGATTNTG NGCAGCAGAA GCCGTTGCAG CCCCACGTTG 60
TGCTCTAGGC AGGGACCTTT GGCCCTTTG GGGAGGGAGA GACAGACGGG CGGTTTGACT 120
TGGACACAAA GAAAGCCTTG GTTCTAAA 149

SEQ ID NO:2745

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03196

SEQUENCE DESCRIPTION:

GATCCCAGGT CTGGGGATGG GGGACACCTT NGGCCACAGG ATACTGGTTG CTCAGGGGT 60
ACCCATGCCC NCTGCCCTNG CCTGGAATCA GTGTTACTGC ATCTGATTAA ATGTCTCCAG 120
AAATAAGAA TAATTCTGCC AGAAA 145

SEQ ID NO:2746

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03197

SEQUENCE DESCRIPTION:

GATCACTCNT AGAGTNGCCA TTCTGCANCT TCCTAAAAAT ATTTAAAAA TACATTTATT 60
TTACTAAATA CTGACTACAT TTNTNTGTTA ATATTGAGCT AAATGTTAAA AAATGGCCAG 120
ATTAAAAGAT ATCAATTTGT AAA 143

SEQ ID NO:2747

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03198

SEQUENCE DESCRIPTION:

GATCCATAGT GTGCATGGGC AGACACATTT TGCCTCTATG TCTCTAAAA TTTAATTAA 60
AAATACTCTT TCCAGTAATC CTAATTTGCA CGAAGATATA ATGTCCACAT TACGTGCCTT 120
GCCTTGAAAT CTAAAAACA AA 142

SEQ ID NO:2748

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03200

SEQUENCE DESCRIPTION:

GATCTCACAG GACTGAGAAC TCGTTCACCT CCAAGCATTT CATGAAAAAG CTGCTTCTTA 60
 TTAATCATAC AAACCTCTCAC CATGATGTGA AGAGTTTCAC AAATCTTTCA AAATAAAAAAG 120
 TAATGACTTA GAAACTGCCA AA 142

SEQ ID NO:2749

LENGTH:141

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03201

SEQUENCE DESCRIPTION:

GATCTTTTCA TTTCTTACTA GCTTTTAAGA AATNAAATAC TTGCCTGAGA TAGAAATACT 60
 TTATTTTGT AACTTTAAGG TCTAAATNAC TAAACTTCAA AGTAAGATTT TNTCAGAATA 120
 AATTGAGACC ATTAATCTAA A 141

SEQ ID NO:2750

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03202

SEQUENCE DESCRIPTION:

GATCAGAAAA AGAAAGAAGC CAAAGAGAAA GGTACCTGGG TTCAACTANA ACGCCACCTT 60
 GAGCTGCTGG AACCTATTCC CTATGAATTC ATGGCATAAT AGGTGTTAAA AAAAAAANA 120
 AAGGACCTCT GGGNTACAAA 140

SEQ ID NO:2751

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03204

SEQUENCE DESCRIPTION:

GATCCTATTT TCNTACAACC TTTCAGTGAC ATCGTTCAGG NTTCTTTCTT GGCCATTAA 60
 AAAACAAAT TTTTNTNC TCACTTGTA GTCACCGCCA GTNCCTAAGT NAGGCTAACG 120
 GNGACTTTGA CAGGN 135

SEQ ID NO:2752

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03205

SEQUENCE DESCRIPTION:

GATCAGTAAT AGATNTAGAT ATACTATTTT NATATTGTAA GCAGTTACNT ACTCAGGATT 60
 AGNATTCGAA TTCATTTGAT TTAATATGTA ATAGGTAATA TTAAAANTAA AGATTTTATG 120
 CTTTGAACT CAAA 134

SEQ ID NO:2753

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03206

SEQUENCE DESCRIPTION:

GATCAGACGT CGCTGAGGGG CTGTNCACCA CCATCCTCGT TCTCCAGGGT CAAGGAAGTG 60
TTTTAACATG TCGTGTTC GACTTGACCT TGTGGTATT TNCTNGGCCT AGTTGTGTGC 120
CATGGATATT AAA 133

SEQ ID NO:2754

LENGTH:141

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03207

SEQUENCE DESCRIPTION:

GATCACTGTA GTTTAGTTCT GTTGACCTGT GCACCTACCC CTTGGAAATG TCTGCTGGTA 60
TTTCTAATTC CACAGGTCAT NAGATGCCTG CTTGATAATA TATAACAAT AAAACAAC 120
TTCACCTCTT CCTATTGTAA A 141

SEQ ID NO:2755

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03208

SEQUENCE DESCRIPTION:

GATCGTTATA TTNACATAA TATAAACAAA ATNACTAATG CATCTATATN CTTGGTTTCC 60
TTAACTACA ATNAACCACA GAATGGGTGA AAATGCAGGC ATGCACGCTT GGCCTAATCA 120
TGGATGNNGC TN 132

SEQ ID NO:2756

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03212

SEQUENCE DESCRIPTION:

GATCCGNCCG CCTCAGCCTC CCTATATGTT TAAAAATATA ANTTTATTCT TATAAANTA 60
AATTNAANCT AGATTGAGGT AGTAATTACA ACAGTCCAGC ACATTATGGA TAATTAATAT 120
TNATATTTAT N 131

SEQ ID NO:2757

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03213

SEQUENCE DESCRIPTION:

GATCTGATAT TTTAAGANTT TGGAGACCAT TTCCTGTGCC AGANTCACTG CTCTATTCCA 60
TACCGTGCCA TGGAGGCTGT TTTAGAAGTG GTTGGATAAC ATGTTAAATA AAATATTAAG 120
TGTAACAAAA AATAAA 136

SEQ ID NO:2758

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03214

SEQUENCE DESCRIPTION:

GATCCACCCA CCTTGGCCTC CCAAAGTCCT GGGATTACAG GTGGGAACCA CAGCACCTNA 60
CCCAGAATAT AAAGACACTT TTNTAATGTG CAATGAAAAA TATGTAAATA AANTATTTTT 120
ATCTNTAAA 129

SEQ ID NO:2759

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03215

SEQUENCE DESCRIPTION:

GATCCACCGT ACCAGGNAGC AGAAATATTT CTACAAAGGG GGCCTAGTTT GGAATGAGAA 60
CANNTCTGAC GGCCGGTATG TGAAGGAGAA CTGCAAACCT CTGAAGAGTT ACATGCTCCA 120
AGACTCCCN 129

SEQ ID NO:2760

LENGTH:408

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03216

SEQUENCE DESCRIPTION:

GATCATGTTG GGATTAACCT GCCTTTTTCC CAAAAANNA AACTCTCAGG CAAGCATTTT 60
TTTAAAGCTA TTAAGGGNGT ATATACTTGA GTACTTATTG AAATGGACAG TAATAAGCAA 120
ATGTTCTTAT AATGCTACCT GATTTCTATG AAATGTGTTT GACAAGCCAA AATTCNNGGG 180
TG TAGANATC TGGAAGTTC ATTCCTGGG ATTCACTTCT CCAGGGATTT TTTAAAGTTA 240
ATTTGGGAAA TTANCAGCAG TTCACCTTAT TGTGAGTCTT TGCNACATTT GACTGAATTT 300
AGCTGTCATT TGTNCATTTA AAGCAGCTGT TTTGGGGNCT GTGAGAGTCC ATGTATTATA 360
TCCAAGCCCA CCAGGGCTTN CCCTAAGGAN TTGCCATNGT AATACCCN 408

SEQ ID NO:2761

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03217

SEQUENCE DESCRIPTION:

GATCTAGGAA AGAAGGCAAC TGAAAAACCT GAAAGAAAAA AAATNAAAGA TAAAAAGTAT 60
ACGATATTCT ATTTTGATT AGCAATTACT TGTTCNCNAG TGTNCTGTNA ATTTTGGTN 120
ACTTTAAN 128

SEQ ID NO:2762

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03218

SEQUENCE DESCRIPTION:

GATCGGCAGG CTGAGGACCA GGCCTGAGG AAGCTGGTGG ATTTGGTCAA CCAGAGAGAT 60
GCCCTCATCC GCTTCCAGGA GGAGCGCAGG CTCAGCGAGC TGGCCTTGGG GACAGGGGCC 120
CAGGGCTAGA CGAGGGTGGG CCGTCTGCTT TCGTCCCAC AAAGAAAGCA CCTNACCCCA 180
GCACAGTGCC ACCCNTGTTC ATCTGGGCTG NCTGGCAGAG AGCCTTGCTG TTTACAATTA 240
AAATGTTTCT GCCACAAA 258

SEQ ID NO:2763

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03219

SEQUENCE DESCRIPTION:

GATCCTTGTT GGTCTAGCTA AATACTGTTA GGGGAGTGTG CCCCATCTCA TCATTTGAA 60
GATAGCAGAG TCATAGTTGG GCACCCAGTG ATTGGGTTCA AAAATAAAGC TGGTCTGCCT 120
CTTCTAAA 128

SEQ ID NO:2764

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03220

SEQUENCE DESCRIPTION:

GATCTNCCGC TCCCTCCCTG AAGGGCATGG GGCCAGGGNA GTCTGGACAG CCGCCCCCAG 60
CCTGCTGACC CCCAGCTTTC TACAGACACC ANATTTGTAA ATAAAGTTGG GGAATGGACA 120
GCCAAA 126

SEQ ID NO:2765

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03221

SEQUENCE DESCRIPTION:

GATCTTTTGA GGCCTTCATT TTATGTTTTT CCTTAAGTGT TATATTATNA TTGTAACATA 60
GATTATACTA CTACTAATTN NTGGATGTNT CAAAAGGTCA AGAAGTAAAA NATGTTAGAA 120
AGCAAA 126

SEQ ID NO:2766

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03222

SEQUENCE DESCRIPTION:

GATCTCTGCA CAGTTTCTTG TTTAGTCTTA TGCCTTTTAG TTGAAAAACA AATTGTATTT 60

TTTTCCTNCT AAGTTTCATG GCCCTAGAGA AGAAGCCAAT NTNNNTAAAG ATGTTATCCC 120

NGAAA 125

SEQ ID NO:2767

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03223

SEQUENCE DESCRIPTION:

GATCCTGGTT TCAATGACGG TTGGAAATAG AAATTNCCAG AGAAGAGAGT ATTGGGTAGA 60

TATTTTCTCT GAATACAAAG TGATGTGTTT AAATACTGCA ATTAAAGTGA TACTGAAACA 120

CAAA 124

SEQ ID NO:2768

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03224

SEQUENCE DESCRIPTION:

GATCACTTAG CAACATGCTT GGNAATTTGG NATCTNTAAA GGTAGGAGAG TGGTGAACAG 60

ATAATCTATG CATATATNAC TAGTGCCAAG ACATAAAGCG GGGGAAAATA TATTTTANCC 120

CAAACATTAA A 131

SEQ ID NO:2769

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03225

SEQUENCE DESCRIPTION:

GATCAATTAC CTAAGTGTTC CTTGGTCTAT TTATGTATAA GAATGCTTTT TAAAGCACAT 60

GTCTCATTTC AAATNACGCA CAAACTGAAG ATGTTAATAA AATTAAAGAG TAATACAATG 120

AAA 123

SEQ ID NO:2770

LENGTH:388

TYPE:nucleic acid

TOPOLOGY:linear

00983

CLONE:HUMGS03227

SEQUENCE DESCRIPTION:

GATCCATTG TCTGGCAGGA GGTTTTGTAT GATAAAGCAA CGCTTGCGCC AAGGCACAAT 60
AGTTGAAGNA TGGAAAGACA GCGCATATCC TGAGGAACTC AGTAGAGTCA CAGCATCTGG 120
CTTCCCTGTA ATCCTTTCTN CTCCTNGGTA CTTAGATTNG ATTAGCTATG GACAAGATTG 180
GAGGAAATAC TATAAAGTGG AACCTCTTGA TTTGGCGGT ACTCAGAAAC AGAAACAAC 240
TTTCATTGGT GGAGAAGCTT GTCTATGGGG AGANNNTGTG GATGCAACTA ACCTCACTCC 300
AAGATTTATG GCCTCGGGCA AGTGCTGTTG GTGAGAGACT CTGGAGGTTT CAAAGATGTC 360
AGAGATATGN GATGACGCCT ATNACAGN 388

SEQ ID NO:2771

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03229

SEQUENCE DESCRIPTION:

GATCGATGGA CCGTAAATAA GCTGCCATTA ACACATCTGG TTAGTCTGT AACATGACTA 60
ATAAAACCGA ACGCCTGTTC CCCTTACCCG TGTGGGGGAC ACGCAGATGA GTGAATTGGA 120
ATGTCCAGCA GAGTTACCCT CCCAATTATA TGTTCAATTT GTATATTTTT TGGTCGGGGG 180
AAAAATTGAC CTGCAGTAAA AAAACCTTTG ACCATTAA 219

SEQ ID NO:2772

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03230

SEQUENCE DESCRIPTION:

GATCAGCACA GGAAGAGCCT TCCTAAGCAT GTGGTCCCAG GGAAGGGTGA AAAGTAGGAG 60
TTATGAACGT AATCCACCTA CTACAATGTT GAATTAAAGT TATAATCTCA TAACCTCAAA 120

SEQ ID NO:2773

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03231

SEQUENCE DESCRIPTION:

GATCCGCCCC CCTCGGCCTC CCAAAGTGCT TGGATTACAG GCATGAGCCA CCGCACCCAG 60
CAAGAGTTAT TTNNTTAACT TGAAATTTTC TACTAGCCCT GGTGAACTTC TGTGCTTAA 120

SEQ ID NO:2774

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03233

SEQUENCE DESCRIPTION:

GATCCAAGGT GATACAGCTG GTAAGTGATG GAGATGTTGG TAGTGAAATN CATGTACTTT 60
TAGTNCTTTC TATGGAATCT AGAGGNAGAA TACATGTACA AGAATATCGA CTACCGTCN 119

SEQ ID NO:2775

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03234

SEQUENCE DESCRIPTION:

GATCCCAGCT GTGTGTCACC AGCAGCTTTC CCAGCTTCTC TGTGAGGGTC ACTGCTGCCC 60
ACTGCAGGGT CCCTGAGGTG AAGTAAACGC CGGCGCTGGG CTTGGCCAGN CGGCAAA 117

SEQ ID NO:2776

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03235

SEQUENCE DESCRIPTION:

GATCATTTCC ATTTTCATAGG TTTTATTGT GGAATAGTCA ACTTAATATA GATTCACTTT 60
CAATTTGCAT GTATAANGTA ATACTCAATA AAATTTTTTC CATTNATTTT NCAAA 115

SEQ ID NO:2777

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03236

SEQUENCE DESCRIPTION:

GATCCTGGGG TTGGTCTGCT TTGTGTATGG TACTTGAAAC CACGCTGTAA TTATTGTCCT 60
GTTGCCAAAC AAAAGCCAGT CATGTAATC TAGAAGCAGT GACTGGTGGG GCTTTCTGAC 120
AGTTCCATGC TGATGTATCA GGCCATCTGT GTCATGCTTA TGTATTATGG CAAGAAGAGG 180
AAAAGTGGAT TAATAAATAC GTTTTNNNN NGTTAAA 217

SEQ ID NO:2778

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03237

SEQUENCE DESCRIPTION:

GATCCTNAGC AACGAACACC TGCACCTAGA AAAAGTGGAC AGCTTCTNCC AACCACACCC 60
TACCCATGGN ACTGTATGCA ATTAATCCT GGAAACGCCC CGTAAATNCN AGTN 114

SEQ ID NO:2779

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03239

SEQUENCE DESCRIPTION:

GATCCAAAT TACCTTAAAT GGAGTTAAGT AGGCTTTGCA CTAAATGGAT ATAAAAGAGG 60
CTGTCTGGNC TNCTATGAAA TNATGATTAA AATCCTTTGT GTTGTCTTTT AAA 113

SEQ ID NO:2780

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03240

SEQUENCE DESCRIPTION:

GATCCTTAAA GAAGGTGTGG GGTCTTTCCC AACCTGAGGA TTTCTGAAAG GTTCACAGGT 60
TCAATATTTA ATGCTTCAGA AGCATGTGAG GTTCCAACA CTGTCAGCAA AAACCTTAGG 120
AGAAAACCTA AAANTATATG ATTACATGCG CAATACACAG CTACAGACAC ACATTCTGTT 180
GACAAGGGAA AACCTTCAA GCATGTTTNT TTCCCTCACC ACAGCAGAGC ATGCAGTACT 240
AANGCGATAT ATTTNTGATT CCCCATGTAA TTCTTCGGNG GNNGGNCAGT GCAGTNCCTCT 300
TTCGGAAGCT TAAGATGGCC NTGNGGCCTG NCCNNNNGN CATATGCCCC TGAAGGGCN 359

SEQ ID NO:2781

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03241

SEQUENCE DESCRIPTION:

GATCTAGGGC AGGCTGTCTT CCAGTCCATG TGTTCTCGGT CGCCGTAGAC AGCGCTCTGG 60
CTACCACCGT GAGGCTACTT GAACTGTCAG GGGCATCTGC CTAAACCAGA ATCTTTTGTC 120
AGAAACCTA ACCCAACAAA ACAAATCTTG AGTAGCTCAT GCCCGGCTCT TAGGAATTTT 180
GTCTGTTTAA A 191

SEQ ID NO:2782

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03242

SEQUENCE DESCRIPTION:

GATCACTCAA CAGCACTGTN ATGTATTATT TNNAATGAGG TGCCTTTTTT AACTGACCAA 60
ATGCTGCCTT GTTTGGCCCC TAANTCAATA AAATATGTTA AAATTTGTAA A 111

SEQ ID NO:2783

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03243

SEQUENCE DESCRIPTION:

GATCTAAGAA ATAGAATTAG GGAGAGTTTA CACTTACTTA CCTATATAAA AGCAGATTTT 60

CNTGGAAGAA ACCCTTTTTT TTTTTTTTTT TAAANAGNA NCANCCAGN

109

SEQ ID NO:2784

LENGTH:340

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03244

SEQUENCE DESCRIPTION:

GATCCAGAAG CTGGTGGACG TCACCACGGC ACAGGTGTAA CNTCCATGTN CCGTGTGAGC 60
AGAGTCCCTA CCAACGGGCA GGTCTGCATC CGGGGAGAAT GCAGCTGCTT CTGGCGACAA 120
TCCTGCTAGT AAACACTGGT CTTCCGTGAG CAACGAACAC TCGCCTGGGN TGGGAAACTG 180
CATGCCCACT TTNTGGGAGG GGTTAGTGCA GGTGCCGTGG ACAAAGGACA ACATTCTNT 240
GGGGCTTTTT AACTTTTATT CCTAAGACTC TAAAGGCGTT GATTCAACC CTCCTTCACT 300
CTGGCTTCTT CAGGNAACCC ACGTGGTCTC CTGTNAGNTN 340

SEQ ID NO:2785

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03245

SEQUENCE DESCRIPTION:

GATCTTTAAG ACAACAAGTT AGGTTCTAC TGGAGTTACC TGCCAGANTG GCCTCTTAAT 60
TAACTCAGGT AATGAAGAGC TAACTGTGTT ATAATCATCT NCCNNNTN 108

SEQ ID NO:2786

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03247

SEQUENCE DESCRIPTION:

GATCTGCTAA AAATGGCAAT TGTAGAATNA TGTTGTATGT AATGTACATA TGGAGAAAGA 60
ATGTATTTTN TCCATTTCTT TAATAAAATG TTATATATGG NTGCTAAA 108

SEQ ID NO:2787

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03248

SEQUENCE DESCRIPTION:

GATCTCTGAG GCTNCGGTCA CCACCCACAA GTTGTGGCCT TGGATACCAC ACTNCAGTTG 60
GGTGGTGATG GGGTNGTGCC TTCTAACTTT TNCCNTATCT TTACCGN 107

SEQ ID NO:2788

LENGTH:125

TYPE:nucleic acid

00987

TOPOLOGY:linear

CLONE:HUMGS03249

SEQUENCE DESCRIPTION:

GATCAGTAAG GATGACTGGT GTTTTCTGAC TTNACAAAA TTACTTGTTT GTTTTCATTA 60
AAAAAAAAGC ATAANCTATG TTTCTNATTA CTATTAGAAT TATTAAATTT CAAAATGAAT 120
CCAAA 125

SEQ ID NO:2789

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03251

SEQUENCE DESCRIPTION:

GATCGATTCT NTGACACAAA CCCACCAAT TGTNAATGCA AGTTTTTATT TGGCTGTATA 60
TACAATTTAA GCTATTAAAA TTTGTACAAT ATTTACAAAT NAAA 104

SEQ ID NO:2790

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03252

SEQUENCE DESCRIPTION:

GATCATTACA TCTNAGATGT ACGTNGGTTT AGTCGAAAG GTGGGACGAT TTGAAGGGGA 60
GGNACTTTCA GGTATAGGC GGATTAAAN ATGTCCTGAT TAAA 104

SEQ ID NO:2791

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03253

SEQUENCE DESCRIPTION:

GATCCAAGCT ATGANATANC CAACAGTATT CAAGANGCAA CCAGCACCAT CATGTGATAA 60
TGGTACTATG GCATATATGC AACATTAAAN TTTTAANTTA GAAA 104

SEQ ID NO:2792

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03255

SEQUENCE DESCRIPTION:

GATCCAGTCT TAATTTGAGC ATGAGAGCAA AATTTAGTCA TCTACACAAG AAGCAAAAGC 60
AAGGAATAGT TGTTGGGTTT TNGTTTTTTG GTTGTTGTNT TTTTTTGTN GTTAGGNANG 120
ANGTGTCCC GN 132

SEQ ID NO:2793

00988

LENGTH:102
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03257
SEQUENCE DESCRIPTION:
GATCCAGGTG GTGTTACATG TCCATTTTCAT GTTTTGGGGG CTTTtagccc NACAAAACAC 60
CTTCAGTAGA GCCTTGATTA AAAGGAAACC TGNAGACTCA AA 102

SEQ ID NO:2794
LENGTH:100
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03258
SEQUENCE DESCRIPTION:
GATCTTCCCC TAGGGGGCCC TCTTACTCCT NCCTCTCTCC TCCTCCTTCC CCATTGCTGT 60
AAATATTNA ACGAAATGGA AAAGAAAAAA AAAAGACAAA 100

SEQ ID NO:2795
LENGTH:100
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03259
SEQUENCE DESCRIPTION:
GATCACACAT CAAGACTATC TACAAAANTT TATTATATAT TTACAGNAGA AAAGCATGCA 60
TATCATTAAT CAAATAAAT ACTTTTATC ACAACACAAA 100

SEQ ID NO:2796
LENGTH:98
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03261
SEQUENCE DESCRIPTION:
GATCTAAATA CAAAGGATAT ACAGTCTTGA NTCTAAAATA ATTTGCTAAC TATTTTGATT 60
CTTCAGAGAG AACTACTAAT AAAAATCTAA AAGGTAAA 98

SEQ ID NO:2797
LENGTH:97
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03263
SEQUENCE DESCRIPTION:
GATCGTNCCT ATAAATAGTA GGACCAATGT TGTGATTAAC ATCATCAGGC TTGGAATGAA 60
TTCTCTCTAA AAATAAAATN ATGTATGATT NGTTAAA 97

SEQ ID NO:2798

LENGTH:96
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03264
SEQUENCE DESCRIPTION:
GATCACTAAA GTATATCTTT AATTCTGGGA GAAATGAGAT AAAAGATGTA CTTNTGACCA 60
TTGTAACANT AGCACAANTA AAGCACTTGT GCCAAA 96

SEQ ID NO:2799
LENGTH:93
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03267
SEQUENCE DESCRIPTION:
GATCTGCTGT CTCGTCCTT CCTGGGTCCC AGCAGCTGTC CTGCAGCTGT CAGCAGGAGG 60
GCCTGGCTTT AATAAAGAGT GGACAAACTG AAA 93

SEQ ID NO:2800
LENGTH:93
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03268
SEQUENCE DESCRIPTION:
GATCAAGTTC GAGGAGGCAG TCATCGCTCG AAACCGGGCC CTGGAGGGCC GCTNACCCTG 60
CCGGANATAA AGNATACAGA GAGCCCCTCC AAA 93

SEQ ID NO:2801
LENGTH:89
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03271
SEQUENCE DESCRIPTION:
GATCCATTCT TGTATTGATA GATATTTGAA TGTTTCCAGT TTTTCTATT ATGAATAAAA 60
CTGCTATGAA CATTCTTGTA TAAATCAA 89

SEQ ID NO:2802
LENGTH:95
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03274
SEQUENCE DESCRIPTION:
GATCGACAGC GTCCTGGCCT AGGGTGCCGG GGCCTGAAGG TCAGGGTCAC CCAAGCAACA 60
AAGTCCCGAG CAATGAAGTC ATCCACTCCT GCAA 95

SEQ ID NO:2803

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03279

SEQUENCE DESCRIPTION:

GATCTCTACA GAGAGAAGTG GAAAATGCTG TATCAAGGGT GGGCTTAGCT GTGCCTTTCC 60
AATAAAGATG TGAGAAGCTT CAAA 84

SEQ ID NO:2804

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03281

SEQUENCE DESCRIPTION:

GATCTTTGCC CCTGGTATGC ATTTNTGGAC TCCACTGAAT CCTGNGAAAA AAAATTAAAC 60
TTCCTTCTTA CTGCCAAA 79

SEQ ID NO:2805

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03282

SEQUENCE DESCRIPTION:

GATCCTGTCA GTTCCATNAG CTATTCCTCT TTGGTTTGGC TTTTGATAT NATTAAAATA 60
ATNTTTAATT CCTTTTAAA 79

SEQ ID NO:2806

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03283

SEQUENCE DESCRIPTION:

GATCAATTTT TATAAAAATC GAGACAGTTC TGTGGTTAAA TCTACAAATT AAAGGGAAAT 60
TAGAAGTTGG CGTGAAA 77

SEQ ID NO:2807

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03284

SEQUENCE DESCRIPTION:

GATCTATTTT ATGCATATTG TTTATAAAGA CACATTTACA ATTTACTTTT AATATTAAAA 60
ATNACCATAT TATGAAA 77

SEQ ID NO:2808

LENGTH:75
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03286
SEQUENCE DESCRIPTION:
GATCTTCAGT AAGTCTCTCA GGCTCTCTGA GCTTGTCAT CCTTTGTTTT GAAAAAATTA 60
CTCAACCAAT CCAAA 75

SEQ ID NO:2809
LENGTH:74
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03289
SEQUENCE DESCRIPTION:
GATCCCTTCA CAGCAGTAAA CCAGCTCTTT GGAACCGATT CCATCACCCC AATAAAGGAG 60
CTCTTCACAG CAAA 74

SEQ ID NO:2810
LENGTH:73
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03294
SEQUENCE DESCRIPTION:
GATCTGTTTC TTTTAAATT TACACTTTN CTTTCCGGTT TGCCGGAATA AACAGGACCT 60
TTGACATTG AAA 73

SEQ ID NO:2811
LENGTH:66
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03296
SEQUENCE DESCRIPTION:
GATCCATTCT AAGACTTATT GGCTGTTTGG AAGTGATAGC AAATAAAANC CACCTTGAAC 60
TGGAAG 66

SEQ ID NO:2812
LENGTH:67
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03297
SEQUENCE DESCRIPTION:
GATCCGAGGG GGAGGGGTGG GAAGGGGAGA AAATNAAATA AAAGATAATT ACTGAACACG 60
CCGNAAA 67

SEQ ID NO:2813

LENGTH:63
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03299
SEQUENCE DESCRIPTION:
GATCATTGAA TTTAAGGCC ACCCAAGTC CAGANTGACC TCGCAAGACC CTTAACTCAC 60
AAA 63

SEQ ID NO:2814
LENGTH:62
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03300
SEQUENCE DESCRIPTION:
GATCTTTTGT ACTTNTNATA ACCTAATGTC AGACTAAGAA AAATAAAATA TCTGAGAGTA 60
AA 62

SEQ ID NO:2815
LENGTH:60
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03304
SEQUENCE DESCRIPTION:
GATCCCTTCG AGACTAANTC TGTTACCAGT CATGAAACAT TAAACCTAC AAGCCTTAA 60

SEQ ID NO:2816
LENGTH:68
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03305
SEQUENCE DESCRIPTION:
GATCTTTGTC TTTTGTGTCG ACAAAGCATT TATTTAATAA AGTTATGCAN TCAGTTAAAA 60
AAANCAAA 68

SEQ ID NO:2817
LENGTH:58
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03306
SEQUENCE DESCRIPTION:
GATCAGATTT TTTATGCCAT CCTCATTAGT TTTCCAATAC AATATAAGTT GAAACAAA 58

SEQ ID NO:2818
LENGTH:58
TYPE:nucleic acid

TOPOLOGY:linear
CLONE:HUMGS03307
SEQUENCE DESCRIPTION:
GATCTCAGAC TTCTGGCTTC CACAACTGTA ACAATAAATT TATGTCGTTT AAGCCAAA 58

SEQ ID NO:2819
LENGTH:57
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03308
SEQUENCE DESCRIPTION:
GATCCACTGG GTGAATCCTC CCGCTCAGAA CCAATAAAAT AGAATTGACC TTTTAAA 57

SEQ ID NO:2820
LENGTH:56
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03310
SEQUENCE DESCRIPTION:
GATCTGTGGT CATTGTCCCT CTGCAGAATA AAGATTGCTC AGGCCTGCCT GGCAAA 56

SEQ ID NO:2821
LENGTH:59
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03311
SEQUENCE DESCRIPTION:
GATCTTTGGT TTGTTTCCAG GTTTGGTTAT TATNAATAAA GTTGCTGTGA ATACTTAAA 59

SEQ ID NO:2822
LENGTH:56
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03312
SEQUENCE DESCRIPTION:
GATCTTCATT GGGGGATTGA GCAGCATTTA ATAAAGTCTA TGTTTGTATT TTGAAA 56

SEQ ID NO:2823
LENGTH:54
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03313
SEQUENCE DESCRIPTION:
GATCTAAGAA ATAAAGAGAA ATGTTTCANT TTGCATTGAA ATAGGAAAAC GAAA 54

SEQ ID NO:2824
LENGTH:53
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03315
SEQUENCE DESCRIPTION:
GATCATNACT GGCTTTGCGC ATCGAGGGGC CATTAAAGAG TCTACTTTTC AAA 53

SEQ ID NO:2825
LENGTH:52
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03318
SEQUENCE DESCRIPTION:
GATCTTTTAA AAAGTGAAG TGTTGAATAC TAGAGGTTGT TAGACNTTA AA 52

SEQ ID NO:2826
LENGTH:51
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03319
SEQUENCE DESCRIPTION:
GATCTTGCCA CTGTAGTCCA GGCTGGGCTA CGGAGAGACC CTGCCTCCAA A 51

SEQ ID NO:2827
LENGTH:54
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03324
SEQUENCE DESCRIPTION:
GATCCTTGCT GATAAATATA ACCATCAATA AAGAAGCATT CTTTCCAAA GAAA 54

SEQ ID NO:2828
LENGTH:50
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03325
SEQUENCE DESCRIPTION:
GATCTCACCA CACTGCAACC TCTGGCGACA GAGCGAGACT TGGTTTCAAA 50

SEQ ID NO:2829
LENGTH:50
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03326

SEQUENCE DESCRIPTION:

GATCCACCCA CTCTCTGAAA CTTCTTTGCT AATAAAACAT TCCTACTAAA 50

SEQ ID NO:2830

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03331

SEQUENCE DESCRIPTION:

GATCTTTTTT TTTCTTACA GACACCCATA ATAAAATATC ATATTAAAAT TCAAA 55

SEQ ID NO:2831

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03332

SEQUENCE DESCRIPTION:

GATCCAGGGG GAAATGCTGG AAGTCAATAA AACTGAGTTT TGAGAGCTTG AAA 53

SEQ ID NO:2832

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03356

SEQUENCE DESCRIPTION:

GATCCACATA AAAAGAAATG TGAAGTTTTT TTTTACTATC TTTTCATTTA TCAAGCAGAG 60
ACCTTTGTTG GGAGGCGGTT TGGGAGAACA CATTTCTAAT TTGAATGAAA TGAAATCTAT 120
TTTCAGTGAA A 131

SEQ ID NO:2833

LENGTH:431

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03374

SEQUENCE DESCRIPTION:

GATCTGCTGA TTGCATTATT TTAATTTGCT TTTCTGGGAA AGCAGTTTTG CTAAAAGCTG 60
TACAGACTTT TNCTTTTGTA CCTAGCAGTA CTTTATATAG TATAGCTTTG GGCCATGTAG 120
CATTTTAAGA CTCAATTTTA AAAAATNATT AATCTGTTGC TGACTCTTAA TTCCTATTTT 180
AATATGTGTT TCCTTGAAGA ATTCAGGATA CAACTTCTTG TGTATGACAG CTTTCCTTCA 240
CACACTATTT TNGTGGGTGT GTATATATCT GATTTGGGAA GAATTTAAAA AACACATAGC 300
TTTTNAATTN GTTTGAAACA GACTTTCTGC CTGTGACATT TNNGCNTTTA NCCAATTAAA 360
GAAGCCAATG GCATTTTNGG TTTTATATNG TGTTTTCCAC TAGTATATCC CTGTGGATTT 420
GTTTGTGCCC N 431

SEQ ID NO:2834

LENGTH:429

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03375

SEQUENCE DESCRIPTION:

GATCCCATGG GTGGCACATT GGGACTTCTN TCCCTCCCC ATCTACACAG AAGACTGTCA 60
CCATGCTGAC AGAAGCCTGT CCTTGTAAGG CCCAGCCTTC CAGGGGAACA CTCAGACATG 120
TTCATTCTCT TCCTGCTTCT GCTCTGGGCC GGTGGGTGGC TCTCAGAAAA TACTTGCTGC 180
TGGCAAAAGG CCTGTACTCA GGCATTTGCT TTGACTTGAT GTTGCCAAGG GACTGAGGCC 240
ATTGGCAGGC TTAGTACCAC CTGCTCCTCA TCTTAGGAGT CTCCTTTTCA AATAATTAGG 300
CTCTGTTCCC ATTTTAAAC TCTGATATTG GGCTTCACCT GTGACTGGAC ACTTTACTAG 360
AGGCCCATTT NCACTAAACA NTAATCTA AATAATTGG AAGGAATAAC AACNACAAAG 420
GGNTAGAAA 429

SEQ ID NO:2835

LENGTH:427

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03376

SEQUENCE DESCRIPTION:

GATCTGGGCT TCCTNACTTC TGGAGAAGTG GCCATCCCAT GCCCACCTTT NCCATGGAGG 60
AGTGGGCCCT GCCAGCTGCC ACAGCTGCAT GACCTGCTTC CCCACCCAC GGTGTCGTTT 120
TNTTTTNAAG GGTACCTGT CCTCACTCAC CCAGCCAGCC CTTGAGGTGC NTTCTACTCC 180
CAGTGCCAAA GCCAGACCAC TGGGGTTTCC TGCTGCAGGA ATTGGGGGCT GGGAACAGCA 240
GAGGGGATAG AAGTNTGGTG GAGGTGGAGT GGGCACGCNT TAGCCTACGG AAAGGNCCAT 300
TTTTTGGGNC CACTGAGCTG CACTGGGATT TTTCAATTCT GGNCTGANT NCCTTTAGGG 360
NAAATAACAC AGCAGGACCN CGGTGGGGAT TTAAAGNACT TTTTTTTNNA GATTNAAANG 420
GNTTCTN 427

SEQ ID NO:2836

LENGTH:416

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03377

SEQUENCE DESCRIPTION:

GATCCTGATG CTGCCAGAGC CATTGTGGAT GCTTTACCAC CACCCTGTGA ATCTGCCTGC 60
ACAGTACCAA CAGACGTGGA TAAGTGGTTC CATCACCAGA AAAACTAATG AGATTTCTCT 120
GGAATACANG CTGATATTGC TACATCGTGT TCATCTGGAT GTATTAGAAG TAAAAGTAGT 180
AGCTTTTCAA AGCTTTAAAT TTGTAGAAT CATCTAATA AAGTAAATC TGCTGTGACT 240
AATCCAATAT ACTCAGAATG TTATCCATCT AAAGCATTTT TCATATCTCA ACTAAGATAA 300
CTTTTAGCAC ATGCTTAAAT ATCAAAGCAG TTGTCATTTG GAAGTCACTT GTGAATAGAT 360
GTGCAAGGGG GNGCACATAT TGGNTGTATA TGTTTNCNT ATGTTAGGGG ATAAAN 416

SEQ ID NO:2837

LENGTH:398

00997

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03378

SEQUENCE DESCRIPTION:

GATCAAAGAT GAGGCCACAA GGACACCAGC AACTGAAGAG GCTGCCTACT TGGTATCAAG 60
ACTGAAGGAG AACTACGTTT TGCTGAGCAC TGATGGCCCT GGGAGGAACA TCCTGAAGTT 120
TAAGCCCCCA ATGTGCTTCA GCCTGGACAA TGCACGGCAG GTGGTGGCAA AGCTGGATGC 180
CATTCTGACT GACATGGAAG NGAAGGTGAG AAGTTGTGAA ACGCTGAGGC TCCAGCCCTA 240
AGCCAGCCCT GCTCTGCCTA AGTGTACTCC AGAAGAACT CATCTCATCC AAATACACGC 300
TATTGAGAAG GCGAGCCTGA CCTCCCTCTT ACAGATAAAG TCAGCTTCA GAGGCTCAGG 360
GTGGGGGGGC CTGCCCAGG CCATAATGCT ACCCACCN 398

SEQ ID NO:2838

LENGTH:408

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03379

SEQUENCE DESCRIPTION:

GATCGCACAC ATGCTTTGTT TGGAAATATGG AGTGAACACA ATTATGTACC AAATTAACT 60
TGGCAAACCTT NCTATTGCCT GTCCCATGTG CATCTNATTT AAAATTTCCC CCATGGAAAT 120
CACTCTCCTG TTGACTATTT CCAGAGCTCT AGGTGTTTAG GCAACGTGTG GTGTCCTGAG 180
ANGGCCATAG CGCCATCATG GGCTGATTTT AATTACCAGG TCCCCAGAA GCAGGTGGGA 240
GGCTCTGCTT CCTGCTGGCC GTTCTGCAGC CTGGACCTGT GGACCCTGGT TGTAAAGNGT 300
AAATTGTTTT CTTANGGAAA CCAGTGTCAC CTTNTNTNAA CCTTTAAANT TAAAAATAN 360
TTTGGGGGAA NAAATTNCNG NNACNGGAGG GTTAAATTT ANCNANN 408

SEQ ID NO:2839

LENGTH:388

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03380

SEQUENCE DESCRIPTION:

GATCCACCAG CTGAGCAGGG CGGGGCTGAG TAAATGCCGG CTTACCATCT CTACCATCAT 60
CCGGTTTAGT CATCCAACAA GAAGAAATAT GAAATTCCAG CAATANGAAN TGAACAAAAG 120
ATTGGAGCTG AAGACCTAAA GTGCTTGCTT TTTGCCCGTT GACCAGATAA ATAGAACTAT 180
CTGCATTATC TATGCAGCAT GGGGTTTTTA TTATTTTNAC CTAAAGACGT CTCTTTTGG 240
TAATAACAAA CGTGTTTTTT AAAAAAGCCT GGNTTTTCTC AATACGCCTT TAAAGGTTTT 300
TAAATTGTTT CATATCTGGT CAAGTTGAGA TTTTSTAAGA ACTTCATTTT TTAATTTNGT 360
AATAAAAGTT TTNCAACTTT GATTTTAN 388

SEQ ID NO:2840

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03381

SEQUENCE DESCRIPTION:

GATCTTGCTG AAAGTGTTTC TAAAGATAGC ACCACTTTTT TTTNAAAGC TTTTATATAT 60
NAAAAAACGT ATCATGCAAA 80

SEQ ID NO:2841

LENGTH:384

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03382

SEQUENCE DESCRIPTION:

GATCTTGTC TAGCCTTTTN ACTTTTGCAA TTTCAGTATC TTCATCTCTA AACTAGGGAA 60
ACACTNGGAT TCTTTCTTAG CTGTGGGGGA AGGTATTTGG TTAGATGACT TTGAATGAAT 120
AGACTGCTGT GCTGAAAGAG CTTTATCACA CTGTCTCAA GTATGTAAAG ATACATAGGT 180
GGATGCTCTT ACTGCAGCAG TCATGAATAC ATTTTGTAGC ATTTACCTAA GGAAAAAGAC 240
AGTTTTTCTA GGTACCATGA AGGAAGATTG ACCCTGTTGG TATGCCTGTG GGGGTGGGAT 300
GTGAGTGGGA CTGATAAACT GATACTTTTG GTTCGTATGT ACATACTGGN AGAATCTTCA 360
TANTAAATGN GACTACACAA CAAA 384

SEQ ID NO:2842

LENGTH:376

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03383

SEQUENCE DESCRIPTION:

GATCCAGGGC AAGGCCATTG GGATATTCTG AAACCTGAAT ATTTTGTTTT GTGCAGAGAT 60
AAAGACCTTT TCCATGCACC CTCATACACA GAAACCAATT TTNTNTNTNA TACTCAATCA 120
TTTCTAGCGC ATGGCCTGGT TAGAGGCTGG TTTTCTCT TTTCTTTGG TCCTTCAAAG 180
GCTTGTAAGT TTGGCTAGTC CTTGTTCTTT GGAAATACAC AGTGCTGACC AGNCAGCCTC 240
CCCCTGTCCC CTCTATGACC TCGCCCTCCA CAAATGGGAA AACCAGACTA CTTGGGAGCA 300
CCGCTGTGA AATACCAACC TGAAGACACC GTTCATTAG GCAACGNACA TAACAGNAAA 360
TGAAGGTGGA CANGCN 376

SEQ ID NO:2843

LENGTH:370

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03384

SEQUENCE DESCRIPTION:

GATCCCAAAC CTAGCCCCCT AGTGGGACAA GGACCTGACC CTCCTGCCCC CATAACAAC 60
CCATTTCCCC TGGTGAGCCA CTTGGCAGCA TATGTAGGTA CCAGCTCAAC CCCACGCAAG 120
TTCCTGAGCT GAACATGGAG CAAGGGGAGG GTGACTTCTC TCCACATAGG GAGGGCTTAG 180
AGCTCACAGC CTTGGGAAGT GAGACTAGAA GAGGGGAGCA GAAAGGGACC TTGAGTAGAC 240
AAAGGCCACA CACATCATTG TCATTACTGT TTTAATTGTC TGGCTTCTCT CTGGACTGGG 300
AGCTCAGTGA GGATTCTGAC CAGTGACTTA CACAAAAGGC GCTCTATACA TATTATAATA 360
TATTCGCTTN 370

SEQ ID NO:2844

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03385

SEQUENCE DESCRIPTION:

GATCTGTCAT CTGGTGCTGC CAGCTGTGCT CACTCTGGTT TTCTGCTCAG GGTCTGAAGC 60
AGCTGCTGTC TNCCTCCTCT GCCCCATCC CCTGGCTCTC CCCTGGGCAC AGTGCCACTC 120
CCTTGGAAGG GAGGGAACCA CCCGTNAGCC CCAGGGCTTG GNAAGCCTGA GGCGGTGNCT 180
CTGCCTCTCC CTGCCCCCAG CACAATTGGC AGAGATGAGG CGGGTGGTGG ACGGCTGGGG 240
GTGTCGTGGC AGGGTCTNGC ACAGGGNCAT GTCCTGGCTG TAACCCAGGC AGTGGGAGGT 300
CTGCAAGCCT GGTCATGGCC TTCACAGCAN GGTNCCTGTT GGACAGACAT ATCTGNATAT 360
TTATNAA 367

SEQ ID NO:2845

LENGTH:366

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03386

SEQUENCE DESCRIPTION:

GATCTCCAAC ACTATCCGAT AAAGTAGAAG CAACTGAGGT ACCGTGAAAG AGAAAGGAGC 60
TGGAAGTGAAG AAAAAGCAGA GGATTCGGAC GGAGAGCGCG AGGACTCGGC GGCTGAGCGC 120
GCCCCGACAGC AGCTAGAGGC GCTGCTCAAC AAGACTATGC GCATTGCGAT GACAGATGGA 180
CGGACACTGG TCGGCTGCTT CCTCTGCACT GACCGTGACT GCAATGTCAT CCTGGGCTCG 240
GCGCAGGAGT TCCTCAAGCC GTCGGATTCC TTCTCTGCCG GGGAGCCCCG TGTGCTGGGC 300
CTGGCCATGG TACCCGGACA CCACATCGTT TCCATTGAGG TGCAGAGGGA GAGTCTGACC 360
GGGCCN 366

SEQ ID NO:2846

LENGTH:365

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03387

SEQUENCE DESCRIPTION:

GATCCCCCA AGGNGAAGTG TGAGACAATG GTCTATCACC CCAACATTGA CCTCGAGGGC 60
AACGTCTGCN TCAACATCCT CAGAGAGGAC TGGAAGCCAG TCCTTACGAT AAATCCATA 120
ATTNATGGCC TGCAGTATCT TTNCTTGGAG CCCAACCCCG AGGACCCACT NAACAAGGAG 180
GCCGCAGAGG TCCTGCAGAA CAACCGGCGG CTGTTTGAGC AGAACGTGCA GCGCTCCATG 240
CGGGGTGGCT ACATCGGCTN NACCTACTTT NAGCGCTGCC TGAAATAGGG TTGGCGCATA 300
CCCACCCNNG GCCACGGCCA CAAGCCCTGG GCATCCCCTG CAAATANTTN TTGGGGGGCC 360
ATGGN 365

SEQ ID NO:2847

LENGTH:364

01000

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03388

SEQUENCE DESCRIPTION:

GATCTAGAGT ATGTTGAAGA AGATGGACAT GTGGTGGTAC GAAAACAATT CCCCTGTGGC 60
CTGCTGGACT GGGTGAACCC AGAACAGGCT AAGGCATACA GTTCTTACTT TTGGACAATC 120
CAAGAGTGAA CCAGAATGCA GTTTCCTTG AGATACCTGT TTTAAAAGGT TTTTCAGACA 180
ATTTTGCAGA AAGGTGCATT GATTCTNAAA TTCTCTCTGT TGAGAGCATT TCAGCCAGAG 240
GACTTTGGAA CTGTGAATAT ACTTCCTGAA GGGGAGGGAG AAGGGAGGAA GCTCCCATGT 300
TGTTTAAAGG CTGTAATTGG AGCAGCTTTT GGCTGCGTAA CTGTGAACTA TGGCCATATA 360
TAAN 364

SEQ ID NO:2848

LENGTH:363

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03389

SEQUENCE DESCRIPTION:

GATCTGGGGA GGCAGGCATT CCTGAAGGGA ACTAGAGGTG TTACAGAGGA CCCTTACGTG 60
AGAAATAGCT GAAAAGGGCA CTCGCAACCC TGGGCTGGGG AGGAGGAGAG AGTCCCAGAG 120
CTCATCCCCC CTGCTGCCCC GTGCAAACCA CTTNTCCATG CTGCAAAGGA GAAGCACAGC 180
TCCTGCCAGG GTGAGCAGGG TCAAGCCTCT TATTCCAGGA GAAGGGGGCT CTGCCCAGGC 240
CCTACTACCN ATTGTNCCCT TCCTCTTCCT GCCCTTGGAA CCCCTNCCT GTCCCAGGGC 300
CCTTCNAGCC CATTGCTGCC AAGGTGGAGG GANGGATAAA GNCACCTCTG GGTTTGAAG 360
CCN 363

SEQ ID NO:2849

LENGTH:361

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03390

SEQUENCE DESCRIPTION:

GATCTGGGTG TGGCCAAAAA CAATTTTNTT TATTCTGTCT ATCAAATAGT ACTTCTACCA 60
CTGTTTGGAG AAAATTGAAG AAAAGAATAA GATGATTAAA TGAATTCTCT AAAAGAACAT 120
ATTTTAAGAG ACAGAACTTA GACATAACCA AGTAGTTGTA TACCTGATTG TAACAATCAT 180
CTTTTATAAA AGCAAAATTA TGCATAAATG TAAAACACCC CTAAACAAAG GGAACAAATG 240
ANTTTTGGT TATATTGTTT TCTTGGCTCA AAGTATCAAT TTATTATTAT AATAGAAATT 300
TATAAGTTGC TAGAAAGTCT ATATTTTAA CGCACGGAAT AAAANTATGT TTTCTATTAA 360
A 361

SEQ ID NO:2850

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03391

01001

SEQUENCE DESCRIPTION:

GATCTGTCTC CAAGACCTTG GCCTCTCCTT GGAGGACCTT TAGGTCAAAN TCCCTAGTCT 60
 CCACCTGANA CCCTGGGAGA NAAGTTTGAA GCACAACCTC CTTAAGGTCT CCAAACCAGA 120
 CGGTGACGCC TCGGGGACCA TCTGGGGCAC CTGCTTCCAC CCGTCTCTCT GCCCACTCGG 180
 GTCTGCAGAC CTGGGTTCCC ACTGAGGCC TTTGCAGGAT GGAACCTACGG GGCTNGNAGG 240
 AGCTTTTGTG TGCCTGGTAG AACTATTTT TGTTCAGTC ACATTGGCCA TCACTCTTGT 300
 ACTGNCTGCC ACCGNGGAGG ANNCTGGTGA CAGGNCAAAG GCAGTGGAAG GAAAN 355

SEQ ID NO:2851

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03392

SEQUENCE DESCRIPTION:

GATCTAGTTC TACGTATTAC ACAGGTGTAA TATCTGTGAG TGTAAATAAC TGGAACCTGTA 60
 CACTGATTAA CATGNCAAGT TCTCTTTTGT TGTCTTATC TGTACTGTAT TATAGTATGT 120
 GGGTATAAAT ATCTACAAGT ATACACACAT ATGTNCTNGT ATTCCACTAT TGTAACCTGG 180
 AAGAAAGACT ATGNATNCCC TNTTNNAATT CCGTACTGGT ATTNGTGTTA TTTAAAAAGC 240
 AAAATNCGGC TCTATTTAGT TGTATAATAT TAGAGGGTAC TNNGCTTGNN CACAATTCCA 300
 AGTGGCCTTA GAGCATTGTT TAGCTNNCCG AAGTATATAT AANN 344

SEQ ID NO:2852

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03393

SEQUENCE DESCRIPTION:

GATCTATGAG CCTGTNTNGG ACAGCCAGAT GGTCAATCATA GTCACGGTGG TGTCGGTNTT 60
 GCTGTCCCTG TTCGTNACAT CTGTCCTGCT CTGCTTCATC TTCGGCCAGC ACTTGCGCCA 120
 CNGCGGATGG GCACCTACGG GGTGCGAGCG GCTTGAGGA GGCTGCCCCA GGCCTTCCGG 180
 CCATAGCAAC CATGANTGGC ATGGCCACCA CCACGGTGGT CACTGGAAC TACTGTGACT 240
 CCTCAGGGTT GAGGTCCAGC CCTGGCTGAA GGAATTGTNA CAGGCAGCAG AGACTTGGGA 300
 CATTGCCTTT NNTAGCCCGA NTACAAACAC CTGGACTTAA A 341

SEQ ID NO:2853

LENGTH:567

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03394

SEQUENCE DESCRIPTION:

GATCTCAAGA CCAAAGACAG ATGTCAGTGG GCTGCTCTGG CCCTGGTGTG CACGGCTGTG 60
 GCAGCTGTTG ATGCCAGTNT CCTCTAATC ATGCTGTCCT TGTGATTAAA CACCTCTATC 120
 TCCCTTGGGA ATAAGCACAT ACAGGCTTAA GCTCTAAGAT AGATAGGTGT TTGTCCTTTT 180
 ACCATCGAGC TACTTCCCAT AATAACCACT TTGCATCCAA CACTCTTCAC CCACCTCCCA 240
 TACGCAAGGG GATGTGGATA CTTGGCCCAA AGTAACTGGT GGTAGGAATC TTAGAAACAN 300

GACCACTTAT ACTGTCTGTN TGAGGCAGAA GATAACAGCA GCATCTNGGN CCAGTCTCTG 360
 CCTTAAANGG AAATCTTTAT TAATCACGNA TGGTTCACAG ATAAATTCTT TTTTAAAAA 420
 AANCCCANNC TCCTNGGGAT GCACANCCTG TCAAGNGTCT TTTTACACAC AANTTTCAGG 480
 TTTNNCATCA CGGGGCTTTG ANTTNAGGA AATNAAAGGN GGGACAAATT TNGTTNGTTT 540
 ACNCTATGGT NCTTTNNTAA NAAACNN 567

SEQ ID NO:2854

LENGTH:349

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03395

SEQUENCE DESCRIPTION:

GATCTTTACT TTTTACTTT TTATTCATCT TTGTGTTTT ATTTATCTAA AATGGGTATT 60
 GATTTTAAGG ACGGTTTTGA AAAAGAAAAG TGTGGGAAT GAAGCAAGTG ATTGATTGGA 120
 AAACATACTG AATGGAAGAA ATATTTAGAT TAAAAATGAG GTAGGTTGAA GTTCTNCTC 180
 TGAATNATA GATAAATGGT GAAGATAAGG CTTATTGTGA GGNTTCAGTG AGGTAATATA 240
 TGCAAAGTAC TTACAATGTT CTGGCACATA GTAATTNATT NNGANAATCG AGCACCCCTTA 300
 ATTACCTAGA ATGCAGGGTT GTTAGTTTTT NGGTTGACTT TTGTTTTNN 349

SEQ ID NO:2855

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03396

SEQUENCE DESCRIPTION:

GATCCGCTGT ATTGTGGAGT ATCAGAACAA GGGCCGCGGG AACGAGNGCG TGCAGTACCA 60
 GCATGTGTTA CATAGAAATC TCATTTATTT GGCTACCATT GCAGATGCCA GTCCAACCAG 120
 CACTTCAAAA GCAATGGAAT AATCTTTCAA AAGCAATAGA ATAATCTTCC ATTTGGCTGT 180
 CGTGAGGAGT AATTGAATGT AATCCATCTC TTACAAAATG GAGACAGGGT CTTACCAAC 240
 TCAACTGGTT AAAACATGAN TGAAACCTCT GTGGCTCTTT CAAAACGTGG AAAATGTGAA 300
 GAANGCTACT TAAC TTNGGC TGTATTCTCA TGGN 334

SEQ ID NO:2856

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03397

SEQUENCE DESCRIPTION:

GATCGGCCTG CTGCTCCGCA ACTTCGACCG CTACGGCGTG GAGTGCTGAN GGA CTCTGCC 60
 TCCAACGTCA CCACCATCCA CACCCGGAC ACCCAGTGAT GGGGGAGGAT GGCACAGTGG 120
 TCAAGAGNAC AGACTCTAGA GACTGTCAGA GCTGACCCCA GCTAAGGCAT GGCACCGCTT 180
 CTNTCCTTTT TAGGACCTCG GGGTCCCTCT GGGCCAGTT TCCCTATCTG TAAATTGGGG 240
 ACAGTAAATG TATGGGGTCG CAGGGTGTG AGTGACAGGA GGCTGCTTAG CCACATGGGA 300
 GGTGCTCAGT AAAGGAGAGC AATTCTTACA AA 332

SEQ ID NO:2857

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03398

SEQUENCE DESCRIPTION:

GATCCTGGGT GTNTNTGTAA GGGTNTTGCC AAAGGAGGTT AACATTGGAC TCANTGGGCT 60
GGGGAAAGGC AGACCCACCC TTAATCTGAG TGGACACCAT CTAATCAGCT GCCAGCGAAA 120
ATAAAGCAGG CAGAAAANTG AAAAAANTAG ACTGGCCTAG CCTCCCAGCC TACATCTTN 180
TCCCATGCTG GATGCTTCCT GCCCTTGAAA ATTGGACTCC AGGTTCTTNA GTTTTGGGAC 240
TTGGACTGGC TCTCCTTCCT CCTCAGCCTG CAGACATCCT ATTGTGGGAC CTTGTGTTTC 300
TGTAAGTTCA TACTTAATAA ACTCTCCATA N 331

SEQ ID NO:2858

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03399

SEQUENCE DESCRIPTION:

GATCGAGTCT ATACGCTGAA GAAANNTGAC CCGATGGGAC AACAGACCTG CTCAGCCCAT 60
CCTGCTCGGT TCTCCCCAGA TGACAAATAC TCTCGACACC GAATCACCAT CAAGAAACGC 120
TTCAAGGTGC TCATGACCCA GCAACCGNGC CCTGTCTTNT GAGGGTCCCT TAAACTGATG 180
TCTTTTCTGC CACCTGTTAC CCCTCGGAGA CTTCTGTAACC AAACNTTTCG GACTGTGAGC 240
CCTNATGCCT TTTTGCCAGC CATACTTCTT TGAGCATCCA GNNTNTNGTG GCGATTTGAT 300
TATGCTTGTT GTGAGGNAAT CATGGGTNGG CNTCNCCNT TAANGGGGTG N 351

SEQ ID NO:2859

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03400

SEQUENCE DESCRIPTION:

GATCCTGGGG GCCTGGGTTG GGGGCTAGGG AGACGCCATG TGATGGACAC TCCAGGGACA 60
CACAGCCTAG CACAGCAGCT TATAATGGGC TCTCCGGGGC CATTTGCAAT AACAGCTGCA 120
ATTCCCTGGA TAGACGAGTT GATTTCTTCC CTCTGCCCCT CCCCAGCCA TGCCAGCTGG 180
CCTTTGTAAG TGCAGGAAAC CGAGTAGAAA ATGTGACCCT CCAAATGGAG AAGCTGCAGG 240
CTTTGCCATT GTGAACCATG GTGAAGTGCT TGGAAACATAC TGTTCACTCA CTCTAAAGGN 300
GCTGAGACTG TGCTGTTGTT CTCGTTTTTN 330

SEQ ID NO:2860

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03401

SEQUENCE DESCRIPTION:

GATCTGAAAA GGACATGACT TCTGAAATAG CCGCTGCTGG GTTTTAAAAG CTGAGGTCTC 60
TCAAAGTGTG GAGGAGACGT TGCCGTCAGN GGGAGCCAAG TGCCGGGAAG ATGTCTATTT 120
TTTCCTTGT GTATTGAAAA TCATGATGTT TGTATGACT GCTGATGCGA TTGTNTTGT 180
AAATNTNATT GTGGCATATA CAGTATTGTC ATACAGTTGA AGAGAAACAA TGTTTCCTAA 240
TGTAAGTNCT CTGAAAATGT TGACACTGTA TATATATATA TNAGGATAGT TTGTNTTTCN 300
NTGTTTGGGG TTTNNNNTTN TTTCNGNTGN 330

SEQ ID NO:2861

LENGTH:396

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03402

SEQUENCE DESCRIPTION:

GATCTTAAAC CCAAAGTACG AGAAATGTTT CTGTTGAATG TAATGCTACA TGAATGCTTG 60
ATTTATCAAG CGCCAAAAAG GCATTGTATA GTAGGAAATG TAAGTGGGGT GGCTTATGGC 120
TTCTTTATCC TCTGATTCTA GCACTTTCAA GTGAGCTGTT GCGTACTGTA TCATATTGTA 180
GCTATTAGGG AAGAGAAGAA TGTGCTTAA GAAAGAACAT CACCATTGAT TTAAATACA 240
AGTAGCAGGG TATTGCCTTT GATTCAACTG TTTTAAGTCC TCATTTTCT CAAACTAAGT 300
GCTTGCTGTT CCCAAATATG GCAAGGNATA GCTTTTACAC TTTTCCCTG CCAACANNTC 360
NTNGATTGGC TTTGCAGANA TNNAGGTTTG ANTTGN 396

SEQ ID NO:2862

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03403

SEQUENCE DESCRIPTION:

GATCCAAAGT GACCCACCA GGGGACAGCC AGAGGAAGGG GACCATGGGG TATCCNNAGT 60
GTCCTGGTCT ATCACCCAG CTTCTTTGTC CCCAGTACC CCCAGCCCAG CCAGCCAATA 120
AGAGGACACA AATGAGGACA CGTGGCTTTT ATACAAAGTA TCTATATGAG ATTCTTCTAT 180
ATTGTACAGA GTGGGGCAAA ACACGCCCC ATCTGCTGCC TTTTCTATTG CCCTGCAACG 240
TCCCATCTAT ACGAGGTGTT GGAGAAGGTG AAGAACCCTC CCATTCACGC CCGNCTACCA 300
ACAACAAACG TGCTTTTTTC CTNTTTGAAA 330

SEQ ID NO:2863

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03404

SEQUENCE DESCRIPTION:

GATCTTATTT TCTGAGAAAT TGATAGCAAA TATGCCAGAA AGTGGACCTA GTTATGAATT 60
CCATCTAACC AGACAAGAAA TAGTATCATT ATTCAACGCA TTTGGAAGAA TTTCTACAAG 120
TGTGAAAGAA TTAGAAAAC TCAAGAACTT GTTACAGAAT ATTCATTAAA GAAAACAAGC 180
TGATATGTGC CTGTTTCTGG ACAATGGAGG CGAAAGAGTG GAATTTTATT CAAAGGCATA 240
ATAGCAATGN CAGTCTTAAG CCAAACATTT TATATAAAGT TGCTTTTGTA AAGGAGAATT 300

ATATTGTTTT AAGTAAACNC ATTTTAA

329

SEQ ID NO:2864

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03405

SEQUENCE DESCRIPTION:

GATCACTTCA GCTGCCTGCT GTGGACAAAG AACATCAAAT TACAGCATCA CGAGTGCTAT 60
TNTTGCTGT GGTGGTCTCC CTGTCCAAGC GGGNCCGCTT TGCAGAGACC AGAGGCATAT 120
CGCGGCTTGA GCTGAAAATG CATTNTTGC AGCTTAGGTT GAATTATTTT NCGTTTGCTC 180
TTTCTTCTAC ACGCGCCTGA TGGATAGTGA ACCTATTCAT CAAAAAGTG CACTGCTCTN 240
CTGTCTATTG TACCGACTTA ACCTCTTCCA CCCAAGTCCG CATCTGTGTG TATCATCAAT 300
AAAGTTGGTN GTGCCTTGGN TTGGGCAAA 329

SEQ ID NO:2865

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03406

SEQUENCE DESCRIPTION:

GATCGGCGTG ACCACCCCTT GCCGGAGGTG GCCCATGTNA AGCACCTNTT TGCCAGCCAG 60
AAGGCACTGA AGGAGAAGGA GAAGGCCTCC TGGAGCAGCC TCTCCATGGA TGAGAAAGTC 120
GAGTTGTATC GCATTAAGTT CAAGGAGAGC TTTGCTGAGA TGAACAGGGG CTCGAACGAT 180
NTGAAGACG GTTNTNGGGC GGTNCCATGT TCTTTAATCG GTTNAACGT GCTCGTTNCC 240
CCTNTGGAAG AAGNCTTNT GTTTACCGGC CCCCTTCCCG AAAAGTTTTN ACAAANGGT 300
GGGGTTGCC AAGNAGGCC AANAGGNN 328

SEQ ID NO:2866

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03407

SEQUENCE DESCRIPTION:

GATCTACAGA GTTAGAAATT CGAAAATAT TCCAGGACTA ATTCTTAATC GGCATTATTT 60
ATACAAGAGG TCAAGTAACA TTTACTAGCG CAATACTGCA CTTGTAAATG AATTATAAAC 120
GCTCTTCTGG AATATATTTA AATAACCATT AAAGAACTGC TTATTCATNC TGGAACTGC 180
ATGTNGATGT TGAATCAACT GATGCCAGCA GAAAGCTATT TTGATTTGTG AACATACTGC 240
CTTATTTAAA GGGTCCTGAT TGCTTGTATT TTANGNCATT CATTAAGGAA AAACCAGGAA 300
ACACTTTTGA ANTAACAGCA TANGGNN 327

SEQ ID NO:2867

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

01006

CLONE:HUMGS03408

SEQUENCE DESCRIPTION:

GATCACCCTC CTCCCAAAAA GCAAGAGCTT GTTTATGGCT GAGGAATCGG CGGATTGTCT 60
GAATGACACA TATACAGAGC CCCCACGGAT TTCTNCACAC TCTGGGTCTG TGCTGGTGGA 120
ACATTGCCAA TNAGTTCTTA ATGAGGCACC TGTGTGTAAG TACATGCTTG GTCTTCTCTG 180
CAGAGAACTG AGGCTAAACT CTGTCCCTAC TTCTGGTTTT GCCCTGTNAT GTCGTAACGA 240
GGTGGGCCTT TTGAGGCCAT TTAGTTTGA GTTCGAGCCA ACCACCTCTG GTTGGTTAGA 300
TGATTGAATA AAAAGTTTCT GAAGAAA 327

SEQ ID NO:2868

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03409

SEQUENCE DESCRIPTION:

GATCCAATCA CCTCCACCA GGCTCCACCT CGAATACTGG GGATTACCAT TCAGCATGAG 60
ATTTNGGCAG GAACACAGAC CCAAACCATA CCACACACAT TATCATTGTN AAACCTTGTGTA 120
AAGTATTTAA GGTACATGGA ACACACGGGN AGTCTGGTAG CTCAGCCCAT TTNTTTATTG 180
CATCTGTNAT TCACCATGTA ATTCAGGTAC CACGTATTCC AGGGAGCCTT TTTGCCCCCT 240
CAGTTTGCAG TATACACACT TGCCANGTAC TCTTGGTAGC ATCCTGTTTG GTATCATNGC 300
ACTGGGTCAC ATTGCCTTAC CTAAAN 326

SEQ ID NO:2869

LENGTH:325

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03410

SEQUENCE DESCRIPTION:

GATCTATGGA ACAGAGGAGG AGCGATGCAG TTGGGAGAGG AAGCTAGAAG GGTTATGGTT 60
GGAGTTCTGT ACAGTGTGTA GTTTCCGACA GGGAAAGAGG ATCCTCCAA TGCCTCTAGA 120
GAGAAAGCCT GAGCAGGAGA TGATGCAGCA GAGGGGAAGG GCCCTGTGGT GCCGCCGCC 180
TTCCTTCAGC CTCCGAAGGT GATGGAAATG GAGAGTGGAG GACCAGGCCT CCAGCTGTNT 240
GGCCTNGCCN TTCACGCCTT AACACTAAGC CCACCTCCCC TTNTCTCCTT CCCAGCATTG 300
AGCCCTTGGT TGCCTGGGCC CAGGN 325

SEQ ID NO:2870

LENGTH:325

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03411

SEQUENCE DESCRIPTION:

GATCTTCAGA AACCTTGCTA GGAGAAGTTA ATGAAAATAG AGTATCAATA GCATTGAAAA 60
AAACCTCTGA AATCCTTCAC GATATTGACT GTCTTCTATC AAACCTCTAA AAGTGAAAAA 120
TGGAATTATT ACAACATATT ATTAAAGTTT AAGGATGTTG TTTCAAGTGA CTGGTATAAA 180
ATTACTAGTA AGCCAAGATA TTGTACGTAT TACCCCGGCA CAATGATTGT GAAAGANCTG 240

ACATTAACT TTGAAGGTAT TTTAACTTG TACATTTTAA AAATATGTAT TTATATCTNA 300
NTANTAAATN TTTCAAGTT TAAAA 325

SEQ ID NO:2871

LENGTH:325

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03412

SEQUENCE DESCRIPTION:

GATCCAAGCG GAGATTGACG CTGCAGCGGA NACTCATCGA CTTCTTCCGG TTCAATGCCA 60
AGNATGCGGT GGAGCTGGAG GGGCAGCAGC CCATCAGCGT GCGCCGAGC ACCAACAGCA 120
CGGTGTACCG GGGTCTGGAG GGCTTCGTGG CGGCCATCTC GCGCNTAAC TTTACTGCAA 180
TCGGCGGCAA CCTGGCGGGG GCACCGGCCG TGATGCTTCG AGAGGGAGTT GTGACTCTGC 240
CTCTTTGCCA GATGACAAAA CTGAGACACA CAGCCGTGAC TTACTTGGCA AGACTGAGTG 300
ACTAGTAAAT AAATGATGGA GCAGN 325

SEQ ID NO:2872

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03413

SEQUENCE DESCRIPTION:

GATCCTCCTT CTAGCTCATC TGTAATACT AGTAGTAGTC AACCAAAGCC TTTCAGACGA 60
GTAAGACTTC AGACAACATT GAGACAAGGT GTCCGTGGTC GTCAGTTTAA CAGACAGAGA 120
GGTGTGAGCC ATGCAATGGG AGGGAGAGGA GGAATAAACA GAGGAAATAT TAATTAANTG 180
GTCTGTAAAC AATAACAACG GTGAATAAGA TTATCAAATC TTTTGTAGTG TAATGATTGT 240
CAAGTTTAAA ANCATTTTNN TATATAACCT GGTATACTCA TGTCAATATN CTTTATTAAT 300
AAAANGNTTT TCAGTGTCAT AAA 323

SEQ ID NO:2873

LENGTH:322

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03414

SEQUENCE DESCRIPTION:

GATCTGCCCA TCTCAGCCTC CCAAAGTGCT GGGATTACAG GTATGAGCCA CAACGCCCAN 60
CCATCATTTA TCTTTTTCAC TCATTTTTC ATGAGTATGC AGAGGAGTTT TCAAGAGGCT 120
ATCTGGTGTG ATATTGTAAT AGGCTGAATG CAAAAGCAGA TACAAGATTC CAGCTTTCGT 180
CTGTCATCAG ACATTGAAGA GATTTGGAGA AATGTAAAGC AGCAGTACTC TTCTCACTAA 240
TTTTTGTTGT GGTTAGTTAG AAAAATGGTT ATTTTNAGTG GGTTTAAATA TGTGAAAAAA 300
ATAAAATTAG CTATTTGCCA AA 322

SEQ ID NO:2874

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03415

SEQUENCE DESCRIPTION:

GATCACCTNT GCGGTGTTCC TNCCAAAACN GCATAGCCCC AATCTAATAT CATCCCGAGG 60
AAATACCAGA CACACGCAAG GGAAAGGACA TTCTACAAAG GAACGGACTC ATACTCTTCG 120
AAAAGTGTCA AGGTCATCTA CGACAAAAGA CTGAAAGGAC CCCAGTCGAA AAAAGNCAAG 180
ATGACAAANT GCAACGTTTC ATCCTAGACT GGATTCTGGA CCCAAAAAT CCCCTTCTTT 240
TGTCAGAAAG GAAATTTGTG GAACAACTGG CAAAATCTGG AGTTGGGTCT GCAGATTACA 300
CACTGGTATC GCAGCGAAA 319

SEQ ID NO:2875

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03416

SEQUENCE DESCRIPTION:

GATCTCCCTT CGTGGAGACG ACACCGGGGT CCTCCTGCCC ACCCCAGGGG AGGCCAGGA 60
TGCTGATTTG AAGGATGTAA ATNTNATTCC AGCCACCGCC TGACCATCCG CCATTCCGAC 120
TGCTAAAAGC GAATGTAGTC AGGCCCTTT NATGCTGTGA GACCTCCTGG AACACTGGCA 180
TCTNTGAGCC TCCAGAAGGG GTTCTGGGCC TAGTTGTCCT CCCTCTGGAG CCCNGTCCTG 240
TGGTCTGCCT NAGTTTTNCC CTNCTAATAC ATATGGCTGT TTTCCACCTG GNTAATATAA 300
CCANGAGTTT GGGCCGNAAA 320

SEQ ID NO:2876

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03417

SEQUENCE DESCRIPTION:

GATCTCTGCT GTGNTCCCA GAGTTACTGC TGCCAGACTG AACTGGAAGG GGAGGATGTA 60
GGAGCCTGCA CAGCTCACAC CTACTCCTGT GGCTCTGGAG TGGGCATCTN CCTGAGAGTA 120
CGGGAATGTN AGGTGCTATT TTAAGCTGGC AAAACCAAAG GCTGTTTTNA TTCTCCTCCT 180
TACCTTGATG ACTATGGGGA GACCGACCAG GGACTCANAC GGGGAAATCC TTTACATTTA 240
TGCAAAGAGC GATTCAAGAA GATTGAGAAG CTCTGGCACC AACACAGTGT CACAGNGGAA 300
NTTGGNCN 308

SEQ ID NO:2877

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03418

SEQUENCE DESCRIPTION:

GATCTTGACC ATGACAGTTT TNCACTTTAA ATGAAACGGG GAACCAAGAG GAACTTACTT 60
GTGTAACTNA CAATTNCTGC AGAAATCCCC CTTCCTCTAA ATNCCCTTTA CTCCACTGAG 120
GAGCTAAATC AGAACTGCAC ACTCNTCCC TGATGATAGA GGAAGTGGA GTCCCTTTAG 180

GATGGTGATA CTGGGGGACC GGGTAGTGCT GGGGAGAGAT ATTCCTTAT GTTTATNCGG 240
AGAATTTGGA GAAGTGATTG ACCTTTTCAA GNCATTGGGA AACAAATAGA NCACANTATA 300
NTTTNNCN 308

SEQ ID NO:2878

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03419

SEQUENCE DESCRIPTION:

GATCTAGAAG ACGATTAAGG GAAGGTCGTT CTCAGTGAAA ATCCAAAAAC CAGAAAAAAA 60
TGTTTATACA ACCCTAAGTC AATAACCTGA CCTTAGAAAA TTGTGAGAGC CAAGTTGACT 120
TCAGGAAGTG AAACATCAGC ACAAAGAAGC AATCATCAAA TAATTCTGAN CACAAATTTA 180
ATATTNNNTT TNCTGAATGA GAAACATGAG GGNAATTGTG GAGTTAGCCT CCTGTGGTAA 240
AGGAATTGAN GAAAATNTAA CACCTTACAC CCTTTCCAT CTTGACATTA AAAGTNCTGG 300
CTAACTN 307

SEQ ID NO:2879

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03420

SEQUENCE DESCRIPTION:

GATCTTGAGG GCAGACAGCA GAATTCCTCT TATAAAGAAA ACTNTTTNGG AAAATACGTT 60
GAGGGAGAGA NGACCTTGGG CCAAGATGCT AAATGGGAAT GCAAAGCTTG AGCTGCTCTN 120
CAAGAGAAAA TAAGCAGGNC AGAGGATTTN CTCTGGACAG AGATGGAAGA GCCGGGAACA 180
GAGAAGTNTG GGGGAAGAGAT AGGAACCAGC AGGATGGCAG GGGNNNNGGG CTCAAGGGTN 240
AGGAGGCCAG TGGGACCCCA CAGAGTTNGG GGAGATAAAG GAACATTGGG TTTGCTTTGG 300
TGGCACN 307

SEQ ID NO:2880

LENGTH:305

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03421

SEQUENCE DESCRIPTION:

GATCTGCCGT GTCCTTATAA AGTGGATGAA AAATGTTTTG TACCCATCTG GAAAACCAAC 60
AACTTGAAAT CTCAGGTATT CCAGGTCACG GACATGAATT TGAAGATATA TCTATCTGTA 120
TGGATATATA TCTATATGTA TATAGATATA TAANTACAGA GAGATATCTG GCTTGGTTTT 180
AATTATGTNC TTAATTTTGT GTGCCAATAA TTGCATATAG ATTTTNTTNC TTAAATATTT 240
GACTGTGGAA CATGCCATTT TAAATATGTN GTAAGGCCTG TNNTAATAAA ACGTTTAGTA 300
TGAAA 305

SEQ ID NO:2881

LENGTH:305

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03422

SEQUENCE DESCRIPTION:

GATCCACTGA TGGCTCCAGA CCCCAACTTT AGCCATTGCA CGTGTTGAAC TCCAGGTTGA 60
GCCTTTGCTG GAGCCGCCTG CAAGGNGCAT GTTTGACCAA TCCCCAGTGG AGGGGAGGGT 120
GGTGTTCCT TTCTGGGACT TCCACAAGTT GAGAACAGAC CATGCTGCCC TGGGCAGTTC 180
TTGAAGGCTG TGAGAGTGGG CCTGACAAAG TTTATTCCTT TTTTTTTTC CATTNCCTTT 240
TATNATNATA ATTGTTTGAA ATNGNCAANT AAAAAATNATG TATATTTATG ANGTNCANCA 300
NGAAA 305

SEQ ID NO:2882

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03423

SEQUENCE DESCRIPTION:

GATCAGGAAA GTCATACTGT TCACTTTCAA GNTGGCTGTC CCCCCGCGG AGCCCCCCCCA 60
CCCCCATATG TACAGATGAT ANTAGGGTGT GGAATGTCGT CAGTGGCAAA CATTTCACAG 120
ATTTTATTT TGTTCCTGTC TNNANCNTTT TTGNCAGTGT GCTAATAGTT ATATTCAGTA 180
CATGAAAAGN TACTACTGTG TTGAAAGCTT TTTAGGAAAT TTTGNCAGTA TTTTGTACA 240
AAACATTTTT TTGAAAAAAT ACTGGTTANT TTATNCTATT TTAATTNGCC AATGTCAATA 300
AAN 303

SEQ ID NO:2883

LENGTH:375

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03424

SEQUENCE DESCRIPTION:

GATCACCGGA CACAATCCTG CAGAAGGACA CACGACTCTA TTTCCTACAG TGCGAAACTT 60
GTCATTCTAG ATGTNCTGTT GCCAGTATCA AAACCGGCTT CCAGGCTGTC ACGGGCAAGC 120
GAGCACAGCT CCGTGCCAAA GCTAACTAAT TTGCTAATCA CTGATTTTNC AAAGCTTGTT 180
GTGGAGATGT GGCTGGACAG GTTTGCCATC AGAGTGGATA TACCGTTGTA TAAAAACAA 240
GATAAAAAAG CTGCCAAGAT TTTTGGCGNG TGGTTGGTCT GAAGTCCTTG CAAGACGCTG 300
NTGCTCAAGC TGTTGACATA CTCATTGGCC TACTTTTAAC ACCTGTCCAG AGGAAACGTG 360
NTATGGGGGT AAGTN 375

SEQ ID NO:2884

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03426

SEQUENCE DESCRIPTION:

GATCAGATAG GAGCACAAGC AGGGGACGGA AAGAGAGAGN CACTCANGCG GCAGCATTCC 60

01011

CTNCCAGCCA CTGAGCTGNC GTGCCAGCAC CATTCTGGT CACGCAAAAC AGAACCCATT 120
TAGCAGCAGG GAGACGAGAA CACCACACAA GACATTTTTC TACAGTATTT CAGGTGCCTA 180
CCACACAGGA AACCTTGAAG AAAATCAGTT NCTAGGNNNN GCTGTTACCT CTTGTTTACA 240
GTTTATATAT ATATGATAGA TATGNGNTAT ATATATAAAA GGTACTGTTA ACTACTGTAA 300
A 301

SEQ ID NO:2885

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03427

SEQUENCE DESCRIPTION:

GATCGGGGGA GGGTAAATAA TGCAAAAATT GCACAGTGGA AGAAGGGGTC TCACAAAAAG 60
CAATCCATCC TGTAGTATAG GTANNNGNGT TGGGGGAAGC AGCTTCCATT CTGGATGTTT 120
GGAACCCITT AGCTTTGTTT TGGAATGGCC CACCATTCTC ACTGGAAAAC AGTGGTCTGC 180
TGTGAAAGGC CAGCTCTCGG CAGCCCCTGT GGTTCAGCG CTGCCGCTCT GTGTCATTCA 240
GGTTGTGCAC ATTGTTTTTC TTCTGACTTC CAGAAATAAA AGTGTTCCTA TGGGAAA 297

SEQ ID NO:2886

LENGTH:296

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03428

SEQUENCE DESCRIPTION:

GATCTGGGTG CCTTGGGAGA NCCAGTCCTT CCTTTNACC CACCCCAGGA AGATGGAGTN 60
CTCTTTNCTA GGCCCATGTC CTGCCAGCAA CCGGGATGCG TGGGCAACTG GACTCTGCAC 120
GGGGGTCTAC AGGTTGAGGG AGGTTGGTCA CAATNAGAAC CTCGGGGTTT GAGGTGGCCA 180
TGGGCAGACA GCCNNAAGGG AGGGAGGGTG TGGGTGTNCG TGTGTGCATG TCCTGGTNTG 240
TAAGGGGGAA AGGTCCTTTC CTGGTTTTAT TTAAATAAAG TAGTTTATGT AACAAA 296

SEQ ID NO:2887

LENGTH:296

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03429

SEQUENCE DESCRIPTION:

GATCTGTGCN GTGGTCCTNA GGCAGTTGTN TCCACACAAG TACTACTTCC TCGTGGGCTA 60
CAGTNAAACT TTGCTGTCCT ACTTTAACAA ATGTCCTGTG CGACTCCACC TCCAAACTGT 120
GCCCTCAAAG GTTGTGTATA AGTACCTCTA GAACAATCCC CTTTTNCCA TCAAGCTGTA 180
GCCTGCAGAG AATGGAAACG TGGGAAAGGA ATGGTATGTG GGGGAAATGC ATCCCCTCAG 240
AGGNCCTGAGG CATAGTCTCT CATCTGCTAT TGANTAAAGA CCTTCTATCT TGTAAG 296

SEQ ID NO:2888

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03430

SEQUENCE DESCRIPTION:

GATCTACTCT GTATGGGTAC CAAAATCACC TTCTCTCTTC AAGTCAAAGT TGAATTTAGA 60
ACTTTGAATA CAGGTCAAAA AATGTAGAAA ATATCATTTT ATATTCCTTA ATCTATATAG 120
CTGAAAAGG GTTGTATTTT CTTAGCTGAA TATGAATACC TCTTAAACAT AAATTAGTTC 180
CTCTCCAGTG AAGTATCTTA TTTTACCAAT CCATTTTCAGG AAAGAGGTTT TGCTGCCGTA 240
AAGGCAGAAA TTTTATTTT ATCCCTTTTA TTTGAATGAG AGATTTGAAA ATCGAATTAT 300
GTAAATATTT CAATGCATCT GCTATTATTT TGTGGAGTTT ATTAACTAC TTAAAA 356

SEQ ID NO:2889

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03431

SEQUENCE DESCRIPTION:

GATCCCAAAC CAAATCTTAG AATCANTTCA TTAAAAATAC TGAGCGGTAT TGANTACTTC 60
GAAGCAGAAC AGGCAATGTG CAGCCCTCAT TTATGAGAAA ACCCTCAGGA AACTCCCAGG 120
GTGATGCTTG GNGAAGCTGT GAGTTGAGCT GAAGCTGGAG AACTTCCTCC AGAGCAAAGG 180
GCTTAAGAAA GAAAGANGAA CTCTAAGCTG GGTCTGCTAA CATCACTCCA GTTTAGATGG 240
NTCCTGTTTT TCCTTAACAN GTTGAGGCGT GGGTAGAGCA GGANTTGTT TTN 293

SEQ ID NO:2890

LENGTH:289

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03432

SEQUENCE DESCRIPTION:

GATCTGAAAT AACATTAATT TGATTGTAAC CCTATTGGGG TTAGTTCCCA CCCTTTGTTC 60
CATCTTGAGC AGAGATGNCG TGCATTTCTT AACGTTTGGT CTCTATACAT TATACCATCT 120
GCTGAAGTTT AGCTTTGTGT GTGTGTATAT GTACCCATGT GTGCACTTTA AATATCAGTA 180
CAAACGATA AACAATGTTT CTGGTTAATG TTGCAAAAAT GGAACACTGT ATTTNACATA 240
ATTGATTTTC TACTCCTGCC CTGTGAATTA AGGCAGAGTT TTACTGTAN 289

SEQ ID NO:2891

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03433

SEQUENCE DESCRIPTION:

GATCTTCCA CACCAGCCTC CAAAATACT GGGATTACAG GCTTGAGCCT CCATGCCTGG 60
CCCAGGTAAC ATGTTTATTG AGCTGTACAT GCATATGAGA AATAAGAAAC TTTTTTTTCC 120
TACTATCATC TCTTAAATNT NGTNTTCTTT TTCTTTTGCT TCCTCTTCTT CTNTNCTATT 180
TNTNATAAAT ATCATGCACA ACTATAACCT ATGGGAATNA TGTAGTAACA CAGATTATTC 240
ATCTTGTTAG AGTTGTATTA AAAATAAACA AGCATTTCOA ATAAAA 286

SEQ ID NO:2892

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03434

SEQUENCE DESCRIPTION:

GATCCAAGAC CAGGGTGGTT GGGGGCTGCC CCTGGCCGAG TCACTGAAGC GACTNATGTC 60
CCTGTNTCCA GGACGANCTC CTCTCCTACT TTGGGACGCC CACGTGGCAG ACCGTGACCA 120
TCTTTGTGGC GGNAGTGCTC ACCGCCTCAC TCACCATCTG GAAGAAGATG GGCTGAGGCC 180
CCCAGCTGCC TTGGACTGTG TTTTCTCTCG GGTAANNNGN GGCATTNTTC TGGGAGGGGT 240
GGGGATTGGG GGACATGGGC ATTTTCTTA CTTTGTAAAT TATTGN 286

SEQ ID NO:2893

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03435

SEQUENCE DESCRIPTION:

GATCTGCNGG GGCNTGTNCA GCTGCAGCAT TCCTGAAAGA TTTCGTAACAT CATCCTAAGT 60
GGGCACATTT AGACATAGCA GGCCTGATGA CCAACAAAGA TGAAGTTCCC TATCTACGGA 120
AAGGCATGAC TGGGAGGCCC ACAAGGNCTC TCATTGAGTT CTTACTTCGT TTCAGTCAAG 180
ACAATGCTTA GTTCAGATAC TCAAAAATGT CTTCACTCTG TCTTAAATTG GACAGTTGAA 240
CTTAAAAGGT TTTTGAATAA ATGGATGAAA ATCTTTTAAC GGAAA 285

SEQ ID NO:2894

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03436

SEQUENCE DESCRIPTION:

GATCAGCTCT TTCTATTTTT ACTCGTAAAA ATTATGGAAA TAAATAATTT TGCTAACAAC 60
TTTGAAATTT CAAACTTCTG GAAAANATGA AAATATTCAT TGTTCAATTAT GAATTTAAAT 120
TGTAAGGTAT GAATGTNATT TGTCTGTACA TCTTGTATCT TTTCCAAAAA ATGATTCTGT 180
ATCTTTTGGA AAAAAGCCGA GAGTTGAAGA TAGTATATTT CTGGTAGTAC TGAATATTTA 240
CTTACAGTTT CTATCAAAAA TATATATTTG TTTCTAAAAT TAAA 284

SEQ ID NO:2895

LENGTH:283

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03437

SEQUENCE DESCRIPTION:

GATCTCCTTG TTAGTGGTGG TAGGGAGCTA GACAAGGATG GCAACTATTT CTGTATCTTA 60
CATACCTTN ATTTNGAGGC CCTGTCAATG TTTTATATAA TANNCATTTT TTGAAAAGGC 120

AACTCTTAAA ACTAAAACAA ACTTAACAGT CTGTCAAGTT GGTGATATAA CCCCACAGAA 180
GACTTACTTC AAGTGACTTG AAAACTTAGT ATTTGTCTG TNCTTGCTA ATGGGNATAN 240
ATCCTACAGA CCAAACANCC NCAGNTAANT CTTAANCTGC AAA 283

SEQ ID NO:2896

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03438

SEQUENCE DESCRIPTION:

GATCCCGGGA GACCTGGGGC TGCCGAAGAA GCTCTGCTCC AAATGGAGAG TGTAGCCTGA 60
GGGCTGGTGT TGCCTGCCTC CCCTGTNCTT GTNCCTTGTC CCAAATAAA TCCTTTCAGA 120
ATGTAGCACT CACGNCCTAA TAAGGAGCGA ATCCTACATC CACCAAGGCG GCGCTCTGG 180
CCCTCCCTTC CTTAAGCCCA GTCCTGTGTC CTCTGAAAGA GGTGTCAGTC ACTCACACCN 240
GCTTGGCTC ACCATCAATA AAAGTAATTT CACCNGAAA 279

SEQ ID NO:2897

LENGTH:278

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03439

SEQUENCE DESCRIPTION:

GATCCCCTCC CCCAAGATAC TCTTTGTGGG GAAGAGGGGC TGGGGCATGG CAGNCTGGGT 60
GACCGACTAC CCCAGTCCCA GGGAAGGTGG GGCCCTNCCC CTAGGATGCT GCAGCAGAGT 120
GAGCAAGGGG GCCCGAATCG ACCATAAAGG GTGTAGGGGC CACNNNNCTC CCCCTGTNCT 180
GTTGGGGAGG GGTAGCCATG ATTTGTCCCA GCCTGGGGCT CCCTCTCTGG TTCCTATTT 240
GCAGTTACTT GAATAAAAAA AATATCCTTT TCTGGAAA 278

SEQ ID NO:2898

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03440

SEQUENCE DESCRIPTION:

GATCTGCTTA CCAAGCATAT TAGGAAATAC CTCTTAGGAA GCATTAGCGG TCTCAGGCCA 60
ATTACTGTGG AGCAGCTTTC ATTCCTACCC ACTTGCAAAC CTTGGCGCTG TTGTCTGAGA 120
TTGCTGCAGC CATTCTTGTT ACCATGGTAC TTCTCAAAC TTGTGAAAAC CTGCACTTTT 180
CCTTGATGA CAGGTTCCCTG TCTTGTCTGT CATGGGAGCC ATTCTGCCAA TTAAATGCG 240
ACTGTGGTAT AAACAGTAAA ATGATTAAAA AGTAAA 276

SEQ ID NO:2899

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03441

SEQUENCE DESCRIPTION:

GATCAGTGTT ATATTTTACT GGAGAAGCTA TTGAAGATGA TGATGATGAT TATAATGAAG 60
 AAGGTGAAGA AGCGGATGAG GTAATGTTTA CCAAATAAGC AAATAATTCT NTGTGGTTAA 120
 CACATTGAGA AGCAAATTGA ATNACTTATG TATTCCTTTG CTATAATCAT TCTGTGATTT 180
 GGGATAAAAA CATTTTGGAA AACATGATTT TAGAATTCTA CAGCCAAACA ATGTATGTAT 240
 AAGGTTTCAA TAAATAANTT GCAAAACTCA GAAA 274

SEQ ID NO:2900

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03442

SEQUENCE DESCRIPTION:

GATCCCCACC TGCCATCCTA TAGTGTGTG TTCCTGTGTG TTCCGGGGCT TCTGGGCAGC 60
 TGGGCCTGCC CGGGGAAGTC CTTGCAGGTG GGAGGCCATA CAGAGACCCA CTGTGTGCCA 120
 CTGAGCGTCC CACTGCTGCT GGGCAACTGG AGGACTGCAG GGGGCGCCAG GTGACTCTCT 180
 CCTTTTATAT CACAGCAGCT CCTGTGCTGA CCTTCAAGTT ACGTTTTGGA ACTGTAATAC 240
 TAAAGGAAGA AATAAACTAC TAATTTGTAT AAA 273

SEQ ID NO:2901

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03443

SEQUENCE DESCRIPTION:

GATCTGGTTA AGTTGTGTAG TAAAGCATTG GGAGGGTCAT TCTTGTGACA AAAGTGCCAC 60
 TAAACAGCC TNCGGAGAAT NNNTGACTTG CTTTTCTAAA TCTNAGGTTT ATCTGGGCTC 120
 TATCATATAG ACAGGCTTCT NATAGTTTGC AACTGTAAGC AGAAACCTAC ATATAGTTAA 180
 AATCCTGGTC TTTCTTGGTA AACAGNTTTT AAATGTCTGA TATAAACAT GCCACAGGCG 240
 AATTCGGGGA TTTNAGTTTC TCTGAATAGC ATATATNTGA TGCATCGGAT AGGTCATTAT 300
 GATTTTNNNC CATTTGCGCT TCATAATGNA AACCAGTTCA TTTTACCTAT CAGGTTATN 359

SEQ ID NO:2902

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03444

SEQUENCE DESCRIPTION:

GATCAGAGCA CAGTTGAAAT TCATGGAAGT GGCATTATTT AAGCAACCAG AATTCCACAC 60
 TGTAGGAAGG TTTTGAAAAT TGTTTCGTTA TAGATTTTAT CTTATCTTTT GGTGTTGTCT 120
 TGGTTTTTCT CATAGACTTT ATAAGTTTGA ACTGGACTTA TTTGATTATA ACCACAAATT 180
 GTGTGTGTGT GTGTGTGTGT ATATATAGAA GTCATTATGG CAGATGCACA AATTGTGCAG 240
 TGATGTAAAT ATACATACTT CACAGAAA 268

SEQ ID NO:2903

LENGTH:264

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03445

SEQUENCE DESCRIPTION:

GATCGGTAGT GTTGTGTGTA GGCCATTCTT CTGGAGAGCC ACAAGCAGGA AGAGCAGCGC 60
TGTGTTGCAG AATGGAGTTC CATGGATTTC TACCAGACCA CTGAAGGAGT TCCTNGAAGC 120
CCTGCGGTAG CTAGCACTGA AGACTATTTT NCTATTGGTA TAACCNGCCC ACCTGAAGGG 180
GAAAGGGGAA ATCAANTTAA TTTCTCGTT AGACATANGG AAATTTAAGG AAAAACAGNT 240
TTAGGANCAG TTA CTAGCG TAGN 264

SEQ ID NO:2904

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03446

SEQUENCE DESCRIPTION:

GATCCATAGT GAAATTGCCA GAGTTTGGCC TGCTGCTTTC CTCGTGGCCT CTCCTTGGGT 60
AGTGAAATNA AGTGACATTT GGATTTTAAT TTGGGTGGGA GGGCTGGGAC AGTTTTNTT 120
CTAGAAATGT CTGTTGAGAT TTCCCCCTTT AGTTTCCAAC CTTCTCCCCA ACCCTTGGAG 180
CTAAATGCGT TGTAATAATAT TGCCAAAATG AAAAGTGTTT TGTAATACTG CAATAAAGGC 240
TGCTTGTTTT TGTGAAA 258

SEQ ID NO:2905

LENGTH:264

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03447

SEQUENCE DESCRIPTION:

GATCGGACAT GAAAGNACCC TGNGAGTCGA TTGTCCTANC TCCAGCGGCC CTGTCATCCA 60
GCTCACTCAT CAATGGGGCC AGTCAGGCC AGGCACTGGG CTCCGGAGGA CTCACCACTG 120
CCCCCTGCTG CCATGTGGAC TGGTGCAAGT TGAGGACTTC TTGCTGGTCT AGTCACGCAT 180
GCAGTGTTGG GGGATGCCTT GGTTTTTACT GCTCTGAGAA TTGGTTGAGA TACTTTTACT 240
AATNAACTG TGTAGGTTGG GAAA 264

SEQ ID NO:2906

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03448

SEQUENCE DESCRIPTION:

GATCTGCTTT CAACACTTTT AGCTCTTCTA GAATTTTCTA AAAATGGTAT CGGATGTACA 60
GCATGGACCC TTCTNTGGTG GGCTTCTTTA CTGTAATGCT TTTAANATTC ATCTGTGCTG 120
TTNAGTGTCT CTGCAGTCCA TTCCTTCTGT TGAGTGTATC AGTAGTCCAT TCCTTTTCAT 180
GGCTGAGTAG TATTTTCATTG TATAATTATA CCACTATTG TNCATTTACT AGATAATANN 240

CAGTTGGCTT GTTTAAA

257

SEQ ID NO:2907

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03449

SEQUENCE DESCRIPTION:

GATCCATCCG CCTTGGCCTC CCAAAGTGCT GAGATGACAG GCATGAGCCA CTGCACCCGG 60
CCATATAATC AAATTTTAT TGATTTTGA GCAAAGGACT TTTCAATGT AACTGCTTAG 120
AAATCGAGCA ATTTTCTATT GTATAGAGTG AAAGTCAAAC TTGTTTATTG TACAAGTCTT 180
TAAAGGGATA GTTAGGAGTA AGTTGTATTT GCTGAATATA TAGACCTCAT TTGTAGCCAT 240
TAGTGATTCT GTATTN 256

SEQ ID NO:2908

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03450

SEQUENCE DESCRIPTION:

GATCTAATTA AAAAAAAGGC AATATTTTTA TATTAAAGTA CTATACTAGG AGAGAATGTT 60
TCANAACCTC CTGATGAATT TCTAAGTGAG CAACTTGATA TAAAATTGTA ATCTTCATTT 120
TTGTCAGTGT ATCCAGTTAC AGAATGCTAC ACACTTACCT TTTTATTGGC TGAGAAATCT 180
GGTTATTTCA TCTTAATCTC AAGATTGTTT TCAAGTGTTT TATAATTAAA TCATAATAGC 240
ATATTTTAAA ATCAAA 256

SEQ ID NO:2909

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03451

SEQUENCE DESCRIPTION:

GATCAAACCA GCTCTTNTNA CCCAAACCAN TGCCGCTGCA TTAAAGGGAG GCCCAGCTAC 60
TCCTTCCCAG CTGAGATGTG GGTACAGGTC AGATTTNTCA GGGAGATGGC ACTAACACGA 120
CACAAGCTCA CTCCCAGAAC CGCAGCTGAT GTTTATAATA ATCGTATGTA CTGTGCAATT 180
TAGGAGGGGA AAAAAAGGCT GTACAAGCTT TAACTCTAAA NNAAATNTCT ATTTTTTNCC 240
TCTTGCAAAN TTAA 255

SEQ ID NO:2910

LENGTH:254

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03452

SEQUENCE DESCRIPTION:

GATCTGCCCT GTACAGCCAT GTAGGCTGTG CGCTGCATAA CTCCAGGGAC ATGAGTCACA 60

01018

CAGACACAAT GTGAGTGTGC TCCCCGTC TGAACATCT GGACACAAC AACAGAGCAT 120
GGTGAATACA TGCTGAATTG CATTCACTAT GGCTGTGAAC TAGGCCTGGG GACAAGANTG 180
ANTTTTACAT GGAAAGAATT TCCTGTAGCA GGAACAGAGG GGATAACAAC AGCAGTAAAT 240
AATAATAAGN CAAA 254

SEQ ID NO:2911

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03453

SEQUENCE DESCRIPTION:

GATCCCCAC TAGTNCCCTC CCTCTNCCCC TGTAATCCTG GTCTAATAAC CCCCCACACA 60
TACACCTCTG GTGACCTATT TGCACAGACC GTNGTCTTCC CTCCAGTNTT CTNAGGGATA 120
GGGGACATTC CATCCCAAGC TTCTNCCTTA CCCACACCTA TCCTTTTNAAG GGGCTTTGGG 180
GTGGGGCTGG GGCAAGCAGA GGGACTGGGT CTTCACTTCT NGGGCTAATA AAATTGTTTC 240
TTTGTGGACT AAA 253

SEQ ID NO:2912

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03454

SEQUENCE DESCRIPTION:

GATCAAACCG GTTCTNTCCT TTCTTGTGTT GCCATGTTAC TATGCCTCAA GCCCAGTTTN 60
CTTTTNCCGC AGCGATGGGG CCAGTCTCAT TCCTCCCCAG GAGTGAAACT NGCTTCANCT 120
GAAAAGGTTG GGTGCATTGT CAGTAAAAAG GGCTTATTTG TTTCATTNA CTTTCCTGCA 180
AAATTTTCTT CAAAGCAACA AGTCCTAGGN GCACACAAAG CAACCCAAAG GCTTTTCCCT 240
GGAAAAGCTC TTN 253

SEQ ID NO:2913

LENGTH:254

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03455

SEQUENCE DESCRIPTION:

GATCCGGGGC ATGCAGAAGC TGAGCACACC CCAGAAGAAG TNAGGGTCCC CGACCCAGGA 60
GAACGGTGGC TCCCACAGGA CAATCGCTGC CCCCCAACCT CGTAGCAACA GCAATACCGG 120
GGGACCCTGG CGGCCAGGCC TGGTGCCATG AGCAGGGGCTC CTCGTGCCCC TGGCCCAGGG 180
GTCTCTTCCC CTGCCCCNTC AGTTTTNCAC TTTTGGGGTT TTTTATTGNT ATTAACTGA 240
TGGGNCTTTN TAAA 254

SEQ ID NO:2914

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03456

SEQUENCE DESCRIPTION:

GATCCTTGTT TTGTTGTCAT GGAAACTTCG GGGCTGGTGG GACTTAGGCC AAAAGCTCAG 60
AGGCACAGCC AAAATTTAGA AGCTTGCTAC TCCTACGACT CGGCCTATAA GGAAGAGAGA 120
AGCTGTCTGT ACTTTGGGGA CTACATTGCT GAAGGAAAAA AATCACTCCC TGGCTAATTA 180
AGATTGCTTC CAAATTGGGG GAATGTGTGT CATTTCTTTT ACCAAGGCCA GTCATCCCTG 240
CTTCCACCN 249

SEQ ID NO:2915

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03457

SEQUENCE DESCRIPTION:

GATCCAGGCC GGGCCTATAC AGAGGTGCTG GCTGCTTGTT TACATTCTCC TCTGGGGCTC 60
TACCTCTCCA CACTTCCCCA GAAGGGAAAA GGGCACCCTG GATTACTNNN TTGGAAATNA 120
CTCCTTGCTG GGCAGCATCC TGAGGGTTC CCAGAACCAG GCCTCTGCTC TGGCCCTCTT 180
GCATCTGGAA CGCCAGGTGG GTTTTTNTGG CATAGGAGCC CACTTGCATT TTCATAGTTT 240
TATTTGATN 249

SEQ ID NO:2916

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03458

SEQUENCE DESCRIPTION:

GATCACAGCC TCCAGGGCCC CCCAAATCCC AGGGAAGGAC TTGGAGAGAA TCATGCTGTT 60
GCATTTAGAA CTTNCTNCTT TGCACAGGAA AGAGTCACAC AATTAATCAA CATGTATATN 120
TCCNCTATAC ATAGAGCTCT ATTNCNCTNC GGTTTTATAA AAGCCTTGGG TTCCAACCAG 180
GCAGTAGATG TNCTTCTGAN CCGCAAGGNG CAAACACTGA AATAAAATAG TTTATTTTNC 240
AACTCAAA 249

SEQ ID NO:2917

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03459

SEQUENCE DESCRIPTION:

GATCTCCTTT TGTGAAAACC AGTTTGATGT GCTAAAAGTA AAAAGTCTAN TTTCCAGTGT 60
GGTCTTGTTT AGAAGCAGCC AGATTTCCAA TGTTGTTTTT CCCCTCCACT CAGAAACCCG 120
TGCCCTTTC CTTCAGAAAA CGATGGCAGG CATTCTCTG AGTTTACAAG CAGAGACTCA 180
CTCCAACCCA AACTAGCTGG GAGTTCAGAA CCCATGGTTG GAATAAAGAA ATTGTGCGTC 240
TTGGTCAAA 249

SEQ ID NO:2918

LENGTH:245

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03460

SEQUENCE DESCRIPTION:

GATCTATCCC TGCGGNCTCC ACACCTGAAC TTGCCTAACT AACTGGCAGG GGAGACAGGA 60
GCCTAGCGGA NCCAGCCTGG GAGCCCAGAG GGTGGCAAGA ACAGTGGGCG TTGGGAGCCT 120
AGCTCCTGCC ACATGGAGNC CCCTCTGCCG GTCGGGCAGC CAGCAGAGGG GGAGTAGCCA 180
AGCTNCTTAA TCCTNAGCCT NCCCCTGTGT ATTCACCACC AATAAATCAG ACCATGAAAA 240
CCAAA 245

SEQ ID NO:2919

LENGTH:384

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03461

SEQUENCE DESCRIPTION:

GATCAGGAAA CCAGAAATAC CACATTTATG GACCATGAAN GGTGTTCT TGACTCTGAA 60
GGGACTTTTG AGTTAATCAG CGTAAGGGGA TTTCTAAAGC AGGCAATCCC TGTAGCCGCA 120
GAGAATAAAC GCCTTCCCAA AATGGNAACT NCCCACAGCC ACATTTTCTG CCGTCTGAGA 180
CTGCTGAGTG AGGAATGGCA GTGAGTTTC TTCAATNAGT CTCAGTTCTC TTAATTTTCA 240
GGAAGAAAGG GTAATTGCAG CCCCTCAGCC CCCAGGATTG ACCTCTNGGG AGNCATGGTA 300
GCGTTGTGTG CCAGGCCGTN GGTTTCAGTG TTNGCAGAAG CTTTCAGATT CGTCCGAAGG 360
GAAATAAAGT GTGTTGGCGT TAAA 384

SEQ ID NO:2920

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03462

SEQUENCE DESCRIPTION:

GATCCCAGCA GCCCTCCCTT CACCGTGACC CCTGACCTTT GTTAGGAAGG TGCAGTTTTT 60
NTTCTCAATC TAAATNCCTT TNAGGTGGGC CGCTTCCTTG GCTACCTGGT TCCAGGGGGC 120
TGTTTTGTAA TNAGATGCTG CTGGCAGGCC ACTCAGAGGC TCCCAGCTGG GTTGGTGGGA 180
CAGCCAGGCC AGATGACCTG ATTCCAGCAA AAATAAACT CAGATTTGGG CAAAATGAAA 240

SEQ ID NO:2921

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03463

SEQUENCE DESCRIPTION:

GATCCCTAGC AGCTCATCCT GCCCTTTGAA TACCCTCACT TTCCAGGCCT GGCTCAGAAT 60
CTAACCTATT TATTGACTGT CCTGAGGGCC TTGAAAACAG GCCGAACCTG GAGGGCCTGG 120
ATTTNTTTT GGGCTGGAAT GCTGCCCTGA GGGTGGGGCT GGCTCTTACT CAGGAACTG 180

CTGTGCCCAA CCCATGGACA GGCCAGCTG GGGCCACAT GCTGACACAG ACTCACTN 238

SEQ ID NO:2922

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03464

SEQUENCE DESCRIPTION:

GATCACCGGT TTCCGACTGA GTCTGGGGAT TTTGGCCTTG TTGACCCTCC TAGGTGCCCT 60
GGGAATTGCA AACAGCTTTC TGGATGAATA TCTGGACCTC AATATGCCA AGAACTGAG 120
GCGGCAATTC TAACTTTTTC TCTCCCTTT AATGCTTGCA GAAGCTGTTT CCACCATGAA 180
GGTAATATGG TATCATTTGT TAAATAAAAA TAAAGTCTTT ATTCTGTTTT TCTTGAAA 238

SEQ ID NO:2923

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03465

SEQUENCE DESCRIPTION:

GATCTACTGT GTGGTGTCTG GGCAGATGAA AGTACACTGC TTAGNGTGAT GCTTAGCATG 60
GGGCAGATGC TTGGTAAATT GTAATCACTT TTGTTGTCAG TTAAATGGAT ATTTCACTGT 120
TGCCTCTNAA ACGCTTACGG TAATATATAC TAATTATACA TGTTATTATC AGTTTATATT 180
TATTGAACAT TTCGGGGAAG TAATTATAAA ATAATCTTGT CTACTGTCTT ACCCCAAA 238

SEQ ID NO:2924

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03466

SEQUENCE DESCRIPTION:

GATCTATGGT GCAGACTGCC TTCGTCGGGT GCAGACTGAG CGACCGNAGC CCCAGACACT 60
ACAGCTGGAT TNCTTGATGA AAATCTTGCC AAATTACCAC CACCTAAAGA AGACTATGNA 120
AGGAAGCTCA ACTCCAGTAA AGAACTAAGA ACAGTGTATA ACATGAAGAT AACATTTTGT 180
CTTTGACCAC TGTCTTTTGA ATGGGCCCCAC AGTGTTTATG TACTCTTAAC AACTCACAGA 240
ATAATACATG TTCACCTTAT TTTGTAAAAT TGGGTTGAGA GGAACTAAT GGAGTTTCAT 300
TGTAACGTGC CTTTNTAATT TATATAAATG TATTATTNTC CTATAAA 347

SEQ ID NO:2925

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03467

SEQUENCE DESCRIPTION:

GATCCTGTGA TATGGTTTTN GGCCAGCAA ATCTAGGAGA AGATGCAATT AAAAATTCA 60
GAGCAAAACA TCACTGTAAT TTTGCTGTA GAAAGCTTAA ACTTCCAGGT AAAAAATTTT 120

TTAATCAGTA TAGTATATAA TTNGTTACGA AACTNGGTGA CTACAATACC TCATAAGGCC 180
AGAGGTACAA NTGTTTAATG TAATGGTCTC TAATTGTGCC AGCTTCAGCA GCTCTN 236

SEQ ID NO:2926

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03468

SEQUENCE DESCRIPTION:

GATCCCGCAT GCCTGAATTC ACTAAAGCCA AGGGTCTNTA AGCCACGCTN NNTCTTCTGA 60
GACTTCCATT CCTTTCTGAT TGGCACACGT GCAGCTCATG ACAATCTGTA GGATAACAAT 120
CAGTGTGGAT TTCCACTCTT TTCAGTCCTT CATGTTAAAG ATTTAGACAC CACATACAAC 180
TGGTAAAGGA CGTTTCTTG AGAGTTTAA CTATATGTAA ACATTGTATA ATGATATGGA 240
ATAAAATGCA CATTGTAGGA CATTTTCTAA A 271

SEQ ID NO:2927

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03469

SEQUENCE DESCRIPTION:

GATCTAAAT GTTATTCCCT TCTGTAGTGT ATTAATCTCT GTGTGTTTTT TTTGGTTTTG 60
GAGGAGGGGT ATGAAGTATC TTTGACATGG TGCCTTAGGA ATGACTTGGG TTTAACAAGC 120
TGTCTACTGG ACAATCTTAT GTTTCCAAGA GAACTAAAGC TGGAGAGACC TGACCCTTCT 180
CTCACTTCTA AATTAATGGT AAAATAAAAT GCCTCAGCTA TGTAGCAAAG GGAAA 235

SEQ ID NO:2928

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03470

SEQUENCE DESCRIPTION:

GATCCATCTN CCCTCATAAA AGTGTTCAGG TACAGCAGCT GAGGCTGCCC TGAGGAATCA 60
NGGGGCCATT ACCAAGGGGC AGGTAAAGGG TATNTAAGAG GTGGCCTTCA TGGTAGAGCT 120
TGACCCAAGA NCTACTCCAC ATTCGGNTNG CCCAGACTGA CTCCATCCCC TGANTTTCCC 180
TTNAGCTCA CCCTGTTTGT AAATAAAACA NTAAATGGA AGGTGCTNTG GAAA 234

SEQ ID NO:2929

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03471

SEQUENCE DESCRIPTION:

GATCTCAAAT CCTGGAACCC CGATTTCAAT CTACGTTCTA GTCAGTGGCC TCAAAGGACC 60
CCACAGCACC TGGGCCAGAC CAACAGCTCG AGGGAGAACC TGAAGGCCCA GGGGGTCCAG 120

GGCGGACCTG GGGCCCCGAC CACCAAGGAC AGCTCACGAC TGCCCTTNA CTGCATGTCC 180
CCAAACTNAG CATGACTCCT GTCCTCTTCA ATAAAGACGT TTCTATGGCC AAA 233

SEQ ID NO:2930

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03472

SEQUENCE DESCRIPTION:

GATCAGCAGA AAGCACAAC ACAACTGCTT CTGTATTCAG GAGGTGTGA GTGGGCTGCG 60
GCANCCGTTG GTGCCCTGCA TAGTGGGGAT GGCTCGCAAC GTCTCTTCAT TCTGGAAAAA 120
GAAGGTTATG TGAAGATACT TACCCCTGAA GGAGAAATTT TCAAGGAGCC TTATTGGAC 180
ATTACAAAC TTGTTCAAAG TGAATAAAG GTTGGCTTTT TAAATTTAA A 231

SEQ ID NO:2931

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03473

SEQUENCE DESCRIPTION:

GATCAGCAAA AATAAAGGGG CTACAGAAAC ACTCATTTTT ATGCTGTTCC CTCTGGGGCT 60
TCATGCAAAG ACAATTCTNT GTAAATNTAC AGTTGACTCT GATTTGGAAA TATGAAAATC 120
AGTCCATCCT TGTTATAAAA AATTTTTTTA CAATTGTAAT TATATTGATG TTCATATTGT 180
GTAAAATAAC TCATTTAATA AAATAGTACT TTGATTACG ACATCAATAA A 231

SEQ ID NO:2932

LENGTH:230

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03474

SEQUENCE DESCRIPTION:

GATCCCACCC CCAGCCATTT GCATTGCTGG CCCAGCGCCT GGCCTGGGGG GCGGGGAGAG 60
GCAGCAGAAG GGGCTGGGCA GGGGCGGTGG AGGACTCAGG AACTNCCCGG GGAGAGTGGG 120
TATGGCGGCT GAGCCAGGN CCCTCCTGTN TTTNACTTCC CGGGATGGGT CCTTGCTTNN 180
AAGCTGTNTC CGACCCACC ATNTAATAAA ACCCAAAGGA ACAGCCCAAA 230

SEQ ID NO:2933

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03476

SEQUENCE DESCRIPTION:

GATCAGCCGG AAACCCCTGG CAGCCAAGAA CAGATAAGGA AGGGATTGGC ATCGGCTGGC 60
CTTCCAGCAC CTTCTCTCTC CAACACTTCA TTCTCTCTTG CCCTGTNTCT CAAATAAACC 120
CAATGCTGCG TGTGAGGCCT TTTTATTTT TCTTTTCACT CTCTTTCTAA TGCTTCCAC 180

CTTACCTTTT AGATTCTTTT GCTAGGTGGG AGATTGTTAT AAGGTCTTTA AACCATTTC 240
ATTTGTTTCT TTAACATTAC CAAAAGCAGG GNACAAAGCT CTTATTCAAC TGCGNATTCC 300
ATAGNGGGCT CTGGNTTNTT CTTGAATN 328

SEQ ID NO:2934

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03477

SEQUENCE DESCRIPTION:

GATCTTGCCC GGTGTCCTGG TCCTCTTGCT TCCGTCGCGG CCGCATGTGC GTGTGTCCAA 60
GCAGGTCCTG GCGCCTCAA CTGCTGCCCC TGGTTGAATG TTCTCTTGAT AGTGCTGGAC 120
CCTTTGTCTA TTTNAAAGCG AATTTTGTGT GATTTCTGC CTTTGCGTT ATATTGTATA 180
ATACCAACGT AAGGAAATAA ACCTTTGGAA TTGTTGAAA 220

SEQ ID NO:2935

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03478

SEQUENCE DESCRIPTION:

GATCCGAGGG CGATGGGACA GTGCACCGCA GATAGAAGAG GAGGACGTGC AGCATGGTGG 60
GAAACGGGGA CACCACCTCC CAGGACGACT GTTTCAGCAA AGAGCGCANT GCTCCAGGTG 120
ACCCAGCAAG GCTGTTGTNT GTATGGAAGG ACACGCTCGC GGCAAGGGCA GGGCCTGGGN 180
AGGGTGGCCT GTCCAGTCCT NNAGACAAGG GGAGGCCTN 219

SEQ ID NO:2936

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03479

SEQUENCE DESCRIPTION:

GATCACCTGA GGTCAAGAGT TCGAGACCAG TCTGGCCAAC ATGGTGAGAC CCCATCTCTA 60
CTAAACTAC AAAATTAACC AGGTGTGGTG ATGCATGCCT TTNACTCGG AGGCTGAAGC 120
AGAAGAATCG CTAAACTCG GGAGGCGGAG GTTGCACTGA GTCCAGATTG TGCCATTGCA 180
TTCCAGCCTG GACAAGAGGA GCAACACTCT GTCTCAAA 218

SEQ ID NO:2937

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03480

SEQUENCE DESCRIPTION:

GATCATGCCT GCGTGACAAA GCCTCCAGAA AAATCCTTGA AAGACAGGAC ATGGAGAGCT 60
GCTGGGTTGG CGAACACATC CATGTGCCGG GAGGATGGTG CACCCCACT CCACAAGGAC 120

CCTTCCAGAC CTCACCCTGT GTATNTCTTC ATCNNNTGT TCATTGTAT CCTTTAAAT 180
ATCCCCTGTA ATAAATCAGC AATAGTAAGT AACTAAA 218

SEQ ID NO:2938

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03481

SEQUENCE DESCRIPTION:

GATCTAAACA GTGAATAGTA CATGCAAAGG CATAGTCTAG AGGATAAAAG TGAAAATAAT 60
TAGTAGCAAA ATNAATGCCT TGTGGATGAG GTTTAGGGGC CAATAACTAT CTTGAGGTAA 120
GGCCAGGTTG TGGCTGCCTT TGTGTTGTAC TAAGGGGTTT GGACCTTCCT AGGAGATTAG 180
AGCTTNATTA AAGTCACAAC ATCCATAAGN GAAATAAA 218

SEQ ID NO:2939

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03482

SEQUENCE DESCRIPTION:

GATCCCTTTG CTGTGAGGGT AGAAAACCTC ACCAACTGCA CCAGTGAGGA AGAAGACTGC 60
GTGGATTCAT GGGGAGCCTC ACAGCAGCCA CGCAGCAGGC TCTGGGTGGG GCTGCCGTTA 120
AGGACGTTCT TTCCTTACTG GTGCTGATAA CAACAGGGAA CCGTGCAGTG TGCATTTTAA 180
GACCTGGCCT GGAATAAATA CGTTTTGTCT TTCCCAA 218

SEQ ID NO:2940

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03483

SEQUENCE DESCRIPTION:

GATCTTAGAT TTGATGAAGC ACAGTATGCA GGTAGGCCTA ATGGGGGAAG ATGGTAATAT 60
AAAAGCAAGA AGTATTTTTT TTTGNAATG NCTGAAAGCT GTTCTGTGGA TGACCTACCG 120
NTTCCTTTAA ACACGATTCT CTCATTCCA ACTCCAACT TGCTCAACTA ATCCTTAAAA 180
ATAAACTTGA GCTGGAATTT GAGGCTTGCC TGGAAA 216

SEQ ID NO:2941

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03484

SEQUENCE DESCRIPTION:

GATCTCGGGG GTGTGGGGCC CTGTGCCTTC CTGAAGTGCT GGCAGCCCAG TGGCACCTCC 60
TTCAGGCCTT TGGGGTATTC CCCTAGTGTG CCCAAGTNAG CCTCATATTC TGGGCGGACA 120
GCTTGTCTGG ACTTCGGAGT TGGGGGTGGT CAGACACCAC AGGAGCTGTC ACCTCCTGCG 180

GATGGGCAAA TAAATTNGTG GAGGACNCCG AAA

213

SEQ ID NO:2942

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03485

SEQUENCE DESCRIPTION:

GATCCTCTCC CCTAGTATNT TCAGCACATG CTCACTGTTC TCCCCATCCT TGTCCCTCCC 60
ATGTTCATTA ATTCATATTG CCCCGCGCCT AGTCCCATT TCACTCCTT TGACGCTCCT 120
AGTAGTTTTG TTAAGTCTTA CCCTGTAATT TTNGCTTTTA ATTTTGATAC CTCTTTATGA 180
CTTAACAATA AAAAGGATGT ATGGTTTNA AA 212

SEQ ID NO:2943

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03486

SEQUENCE DESCRIPTION:

GATCTTTTCA GAGTGGTGTT TCTAAAAGAG CATGTACAAA AGTGGCCTGT GGACATTTAG 60
GCCTAAAGTG ATGCATTTNC TCTTCCTNTT TGTGCCAATG TATCAATGTA GAGTTGCTCT 120
GTTTTCTNCA ACTGTATNNA TTGCTGCATT TCTCAGCATA AACTTATCCC ATTGTATTTT 180
TNATAAATAA ATATTTTTTT TGAACTTTCA AA 212

SEQ ID NO:2944

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03487

SEQUENCE DESCRIPTION:

GATCAAGGAT GAGGATTAGC ATCTGCAAAT TGAACCTCTAT CTAATTTNCA TTTTATTTT 60
TTAGAATTGT AATTAAATTT GTGTAATAAA TGTNTTCCAT TTCATTTGTA CACTTAAAC 120
TTGGGTGACT GAAATGCAGT TAAGTGAATT NCCTTTTNTT AAAAGCAAAT GTAGATTATN 180
CAATAAGCA GCAAACCAAT ATTAANCATA AA 212

SEQ ID NO:2945

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03488

SEQUENCE DESCRIPTION:

GATCTATGTA AAAGAATACA ATTCTTTTTT ACATAATTAG TGAAATTTTA TTTTTTATTA 60
GGAAACACTA AATAGTGTA TATTTCTTTT GCTTTTAAAA AAATTCCTGG TAGCAAATCA 120
AGATAAATAA TTGNTTCATT TTCTTGAGCA ATACTGAAGC AGGATGAAGT AAGAGGAATG 180
CATTCATTTA AACATGCTTT GCTTGNTGAA A 211

SEQ ID NO:2946

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03489

SEQUENCE DESCRIPTION:

GATCAAAGAA CTTTCTTAT AACCTGCAAT CAGCTACTCA GCCAAAAAAC AAAACAAAAC 60
CTTGACTGCC TATGGAGGAA GACTGTGTTT GGGGGAGCTG GCATAGCTAG TGCAGAGTTC 120
AGATTTTCTG CTGATAATCT TTTACACCTT GGGAAAACCT TAATATCCGT ACCTGAAGGN 180
TGATTCACCT AAAAATGTGT TAACTGAAA 209

SEQ ID NO:2947

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03490

SEQUENCE DESCRIPTION:

GATCTTCTCT GTGAATCCAC CCCTGGCTAC CCCACCCCTG GCTACCCCAA CGGCATCCCA 60
AGGCCAGGTG GGCCTCAGC TGAGGGAAGG TACGAGCTCC CTGCTGGAGC CTGGGACCCA 120
TGGCACAGGC CAGGCAGCCC GGAGGCTGGG TGGGGCCTCA GTGGGGGCTG CTGCCTGACC 180
CCCAGCACAA TAAAAATGAA ACGTGAAA 208

SEQ ID NO:2948

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03491

SEQUENCE DESCRIPTION:

GATCACACTT NGGCCTTCAC TGCAGCGTGG TGTGGCCACC GTCCGTTTCC TCTCGGCCTT 60
CCTCCGAGTC CAGGTGGACT CTGTGGATGT TTGGATGTGG CCCGAGCAGG CTCAGGCGGC 120
CCCACTNACC NACAGCATCC GCCGCCACCC CTTCGGGTGT NAGCNCTCAA TAAAAACAAC 180
ACACTATAAA GTGTTTTTAA ATCCAAA 207

SEQ ID NO:2949

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03492

SEQUENCE DESCRIPTION:

GATCTGAAAA TTCTTGAAAA TTGTTCCATG TGATTAACAT GGAAGTGCCT CTAATAATC 60
ATTCTGAATN ATTAAATCGT TTCATTTTCT AAATGCNTTA TAATGTGTTT AGCCCTTTCT 120
TGTTGCTGTA TGTTTAGATG CTTTCCAATC TTTTGTTACT ACTAATAATG CTATAAATA 180
AATATCCTTG TACTTCTTTG AAA 203

SEQ ID NO:2950

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03493

SEQUENCE DESCRIPTION:

GATCTTNTCT GTNTGGGTGG GGAGCCGGCC GGCCGTGACC CAACGGCATC CCAAGGCCAG 60
GTGGGCCCTC AGCTGAGGGA AGGTACGAGC TCCCTGCTGG AGCCTGGGAC CCATGGCACA 120
GGCCAGGCAG CCCGGAGGCT GGGTGGGGCC TCANTGGGGG CTGCTGCCTG ACCCCCAGCA 180
CAATAAAANT GAAACGTGAA A 201

SEQ ID NO:2951

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03494

SEQUENCE DESCRIPTION:

GATCGTATAT GTGGGTCCCT TCCCTAGAAG AATGGTTGCT GATATGGCTA CTGCTTCTAC 60
ATCTNGAGTT TTTNAATTTA CTTTTTTNAC ACTGTAGCAT TGAGACTGCT TGATTCAAGT 120
CTGGTGCTTT GCCAGATGTA TTAATTNCCA TAAATGCTTT GTGAGTTTGG TAAAAATGAA 180
GATTCACTTG GGAAANCAAA 200

SEQ ID NO:2952

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03495

SEQUENCE DESCRIPTION:

GATCACAGCC GGAATGCAGC TGAAAGATTC CCTGGGGCCT GGTTCCAACC GCCCACTGTG 60
GACTCTAAGG CCTCTGCATT TGTGGGTGGT CTGNCTGTAA TATTTTGGTC ATNGGCTGGT 120
CTGGTCGGTT TCCCATTTGT NTGGCCAGTC TCTATGTGTC TTAATCCCTT GTCCTTCATT 180
AAAAGCAAAA CTAAAGAAA 199

SEQ ID NO:2953

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03496

SEQUENCE DESCRIPTION:

GATCTCTAGT TTTTNTGGTT TAATTTTNAG TAGCAGGTCA AAAACCTGCC CTCCTGTNAC 60
TTATTCCCTG AGACTTTTCA GGAGAGCCAG CCCACAGATG ATGAAGAAAT GATGGAAGTT 120
CATTTGGAGA GTCAAATGGG AAAAAACAA AAAAAAACT GCCTTTAATA CAGGCAATTC 180
AGTGGACTAT AATAATAGTG GAGGGTTGAG ATGTAGAGTT TTTAAAAAGT GAACAGTTGC 240
TGTTCTTACA TCTNTAANGA AAGCCATAAT GTCTTTAAAT CACTCTTCTG TAAATAGATG 300
NCCNTTTTTC CAGTGTAAT 319

SEQ ID NO:2954

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03497

SEQUENCE DESCRIPTION:

GATCCTTAAT GCAGAGCTAG AGGACTTCTG GCAGGGAAGT GGGGAAGTGT TCCAGATAGC 60
AGGGCATGAA AACTTAGAGA GGTACAAGTG GCTGAAAATC GAGTTTTTCC TCTGTCTTTA 120
AATTTTATAT GGGCTTTGTT ATCTTCCACT GGAAAAGTGT AATAGCATAC ATCAATGGTG 180
TGTTAAAGCT AAA 193

SEQ ID NO:2955

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03498

SEQUENCE DESCRIPTION:

GATCTGTTTC ATTTATAAAA GGTCCAGTTT TTAGGACTAG TACATTCCTG TTATTTTCTG 60
GGTTTTATCA TTTTGCCTAA AATAGGATAT AAAAGGGACA AAAAATAAGT AGACTGTTTT 120
TATGTGTGAA TTATATTTCT ACTAAATGTT TTTGTATGAC TGTGTTATAC TTGATAATAT 180
ATATATATAT ATN 193

SEQ ID NO:2956

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03499

SEQUENCE DESCRIPTION:

GATCCAAGAA TGTGCCAAGA GTCCCGCCAG CCTCAGCCAG GTGGGCCTGT ATATAGGGTC 60
CATGTGCAAT AGGGAGGGAC GTCTTCTATT TTTTNCCTGCC CCCTCCCCGC CCACTGTCTG 120
GGGCAGGGGG AGAAGGTATT TTCGAGATAA AGCACAGGCA CCACAAATAA AAGTCGTGAA 180
GTTGCCACTC AAA 193

SEQ ID NO:2957

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03500

SEQUENCE DESCRIPTION:

GATCTGGGAG CAAGCTACCA ACAGGGGAGA CTCTTTCCTG TATGGACAGC TGCTGTGGAA 60
ATACTGCCTG CTTCTCCCAC CTNCTCANAG CCACAGGAAA GAGGAGGTGA CAGAGAGAGA 120
GCAAGGAAAG TAATGAGGTG GATTGATACT TTCTACTTTN CATTAAAAATT ATTTTCTAGC 180
CTGCAGTCTA AA 192

SEQ ID NO:2958

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03501

SEQUENCE DESCRIPTION:

GATCAGCCTG GGCATCATGG TGGCCTGCAC CTGTAGTCCC AGCTACTCAG GAGGCTGAGG 60
TGGGAGGATA GTTTGACCCC AGAAAGTTGA GGCTGCAGTG AGCCATGAAT GCACCACTAC 120
ACGCCAGCCT GGATGACAGA GCGAAACCCT GTCTCAAAGT AATTAATAAT AATTATATTA 180
ATTCAGCAAA 190

SEQ ID NO:2959

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03502

SEQUENCE DESCRIPTION:

GATCTGCTTC CCACTGTGAC TGGGCTATGG GATTCTGACT ACCTTGCTTA CAGATTCATG 60
GTTTGATAAA TTTGTTGTAT TCAAAAACCTT GAAATGCAGG ACGCCATTAA GTGTCTGTTT 120
ATATTNTGG AATATTTGTA TTAATTACAA TTAATTAATA AAAGTGGGTT TAAAAAACCT 180
TTCCAGGAAA 190

SEQ ID NO:2960

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03503

SEQUENCE DESCRIPTION:

GATCTTGCCC CCTTTGACCT TCCCCAAAGG ATGGTCACAC ACCAGCACTT TATACACTTC 60
TGGCTCACAG GAAAGTGTCT GCAGTAGGGN ACCCAGAGTC CCAGGCCCTT GGAGTTGTTT 120
TCGGCAGGGG CCNTNTCTCT CACTGCATTT GGTCAGGGGG GCATGAATAA AGGCTACAGG 180
CTCCAACNTG AAA 193

SEQ ID NO:2961

LENGTH:185

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03504

SEQUENCE DESCRIPTION:

GATCAATCTG AAATATCTT AGCCCAGTCA GGGAGCTCTG CTTCTAGAA AGGCATCTTT 60
CGCCAGTGGA TTCGCCTCAA GGTTGAGGCC GCCATTGGAA GATGAAAAAT TGCACTCCCT 120
TGGTGTAGAC AAATANNAGT TCCCATGGT GTTGTGCCT ATAATAACA CTTTTCTTT 180
TAAA 185

SEQ ID NO:2962

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03505

SEQUENCE DESCRIPTION:

GATCCAACGA GGAATATTTT GCCACACGGC AAATATATAC CGTATAATTT TCTGTACCAC 60
TTGATAGAAA GGTAAAGAAT GAATATTGTT TTTTAAATAA CTTTTTCTT ATATAAGTAA 120
TATGTGCTTA TCGTGTAAC ACCTAAAAAC ATTGAAAAAT AAAAGGAAAA TAAAATTCAT 180
ACATAACCA A 191

SEQ ID NO:2963

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03506

SEQUENCE DESCRIPTION:

GATCAGAAAT GGAGCATGGC CTTGTCCTTT AATGGGGATG CAAATAAAGT TTGTGGGGTT 60
AAAAGTTATA AGACAGNAGT GATACCCAC TCTCTCCATT ATTGTCCAGC GGGGTGACAT 120
AATGACAGGT TAAATATTTG TGATTCATTG ATTAAATATT ATTTAAAGAA ATGTAAA 177

SEQ ID NO:2964

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03507

SEQUENCE DESCRIPTION:

GATCACAGNG NTGGTGTCAA ATNCTATTNN AGGTTTGAAC TCTTGAGCTG GAACCTCAGC 60
AAACTAGAGT ATATATTGTT CAGTATTTCT TTGGAAACAT TTCATTAATG TACTTGTCTT 120
ACAGAAATTT CTGAACTTTA GTAAAAAATA ATAAAGTTAA ACTTTTAAAA CTCAAA 176

SEQ ID NO:2965

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03508

SEQUENCE DESCRIPTION:

GATCTGAACG ATGCCGTGTC CAGTTTGCGA AGTCCTATTC CCCTCCTCCT GTCGTGTGCC 60
TTTGTTCAGG TGGGGATGTA TTTCATGTAG AAGGTGGAAG AAGGCTGCTA TNACTCTTTG 120
GATGGGAGTC TGGCAAGAGG AAATTGGAAG ATAAAAATAA TAATAAGTGA AA 172

SEQ ID NO:2966

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03509

SEQUENCE DESCRIPTION:

GATCTGCTCT GCTGCCCTGA ACTCTTACGG CAATTTAGGT TTCTCATTTT NNTTTTCTTT 60
 TTACATATGT ACAAATTGTT TTAAGCTTTG GCCTCTATCC AGGTTATNCT GACAATGAAG 120
 AAATGGGAGT TGTCAGAGCA TTAATGCA ATCTTCACTA AAANCAGTGA AA 172

SEQ ID NO:2967

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03510

SEQUENCE DESCRIPTION:

GATCTCTAAT ACAGTATCTA ACACAAAAGA AGCTTTAAAA AGACAGTTTC TTTCCTTATT 60
 TGATTAGCTA GAAGTTTATC TAGGTAAAAG CAAAAAATA ANTTNCAAN GCATANCATA 120
 NCATTGGGGT TCTTTTATA CTCAAGATGT TTANCTGTTC AAANTGNCAN 170

SEQ ID NO:2968

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03511

SEQUENCE DESCRIPTION:

GATCCAGGCG GGAGCAGAAG CTAAAGCCAA AGCCCAAGAG AGTGGCAGTG CCAGCACTGG 60
 TGCCAGTACC AGTACCAATA ACAGTGCCAG TGCCAGTGCC AGCACCAGTG GTGGCTTCAG 120
 TGCTGGTGCC AGCCTGACCG TCACTNTCAC ATTTGGGCTC TTCGCTGGCC TTGGTGGAGC 180
 TGGTGCCAGC ACCANTGGCA GCTCTGGTGC CTGTGGTTTC TCCTACAAGT GAGATTTTAG 240
 ATATTGTAA TCCTGCCAGT TTTTNTTTT TCAAGNCAGG GGTTGCATNC TNAGAAAACC 300
 CTACTCNACA CAGCACTTCT TANGGTAGGC CNCTTATTCA ANTTCAATTT NNAGN 355

SEQ ID NO:2969

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03512

SEQUENCE DESCRIPTION:

GATCTCGGAT GCCATCCCG AGCTGAAGGC CTCCATCAAG AAGGGGGAAG ATTTCTGTAA 60
 GACCCTGAAG TGAGCCGCTG TGACGGGTGG CCAGTTTCCT TAATTTATGA AGGCATCATG 120
 TCACTGNAAA GCCGTTGCAG NTAACTTTG TATTTNAATT TGCTTTGGTG ATGATTACTG 180
 TTTTGACATC NTCATGCCCT CCAAATTGTG GGTGGCTCTG TGGGCGCATN ANTANAGCC 240
 GTCCTTGATT TTGGGAAA 258

SEQ ID NO:2970

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03513

SEQUENCE DESCRIPTION:

GATCACAAGA GGCCCATTTG TAGTGGCTGG TTGACAACGG CTGGNGCAAA TTAAATAAAT 60
 AAAATAGCTC TNTCTTTCAA A 81

SEQ ID NO:2971

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03514

SEQUENCE DESCRIPTION:

GATCTNAGAC ATCCCATCT TTGTAAGCAG AACAGTACGG CACTTCACCA CATCTNCTTC 60
 CCACCATGCT TCTAAGCAGC TGTNTTCCCC CTGCTAATGT TACAACCAAA GCAGCCACCC 120
 CACCTCCTNT NGTGTTGAGC CTCACGACCT NTGACCCAGC TGGAAAGCN 169

SEQ ID NO:2972

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03515

SEQUENCE DESCRIPTION:

GATCTCATT CTGCTTTTCT TTTATGTCCT TTTGTCTCCA TGGGAGGTTG AGCTTCTTTT 60
 CCTACAAGTT TACTTACTGT TTGCATTAC TTTTCTTTG CATTGTCTGT TCCAGTCCTC 120
 TGGCTATTTG ACTATTGTGT AATAAAAGGA CCAAAAACAA ATGTGGTN 168

SEQ ID NO:2973

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03516

SEQUENCE DESCRIPTION:

GATCTTGCTG CAGCCACAGT GCAGNTCCAC ATTAAGTCTA CAGACCAAAC CATTTGTATC 60
 TGGCATCACT TACTAACACA CGNCATGCGG CTTTTCTGCA TCAACTGCTA TGACGGTTAA 120
 GANTGTCAGT ATACAAGNAG GGATAGAAAA CTGGTACTGT TTAAATAAT CTGTAATNTC 180
 AATGTTTTTT TTTTNTTTC GGAAANNCNT NGTTTTGCCC GNTTN 225

SEQ ID NO:2974

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03517

SEQUENCE DESCRIPTION:

GATCTTCTGT GGTGCTTAAG GNAAGTACT AGAGCTCCAC TAACAGTCTC ATAAGGAGGC 60
 AGCCATCATA ACCATTGAAT AGCATGCAAG GGTAAGAATG AGTTTTTANC TGCTTTGTAN 120
 GCAAATGGNA AAGGTCAATA AAGNTATATT TCTTTAGNAA ATGGGCAAA 169

SEQ ID NO:2975

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03518

SEQUENCE DESCRIPTION:

GATCCCAACT CCCATGACCT CTGGCTTCAG TGGTGGGTGG GGCAGGGCAG ATGAAAGGGC 60
TTCAGTGGGA ACCTCTGAGA GCATTTTCCT GTTCCCCCTA TCAACCGCCC CCAGTGATAA 120
CATCTGTGAA GCCAGCCATT ACTCAATAAA CTGCAAACCT GTCTAAA 167

SEQ ID NO:2976

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03519

SEQUENCE DESCRIPTION:

GATCAGNAGC CCACTGATAA GGGGCCCTAG GGTACAGGGT GCTGCCCAGC AGGTCGCCAC 60
CGAGTGTCTT CTCATTTTAT TTCAGCTCCA TTTTGGCCAT AGATGGGCAG AGGGGTGAGA 120
TTGGCTCATC CCCCTTCCAG ATTCTGCAAT AAAGCGGTGT GAGGAAA 167

SEQ ID NO:2977

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03520

SEQUENCE DESCRIPTION:

GATCATTTCC TCTTTTNGGA TGTATAAGAN CCTTCCGGAC AACAGAACCT ATTTNTGGAA 60
TTGCAGAAGA TAACATATTT CCCTTATTTN NATTTAATCA CCATAAACCA TACCTATTTA 120
ATGAGTGTAT TCTGTGCAAT TTTTCCTCA GATTGTNTTT AACTNNN 167

SEQ ID NO:2978

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03521

SEQUENCE DESCRIPTION:

GATCGACTGC CAAGCAGCAG CCGCTGCCGA GGGGCTGCGT CTGACATCCT GACCTCCTGG 60
ACTGTAGGAC TATATAAAGT ACTACTGTAG AACTGCAATT NCCATTCTTT TAAATGGGTG 120
AAAAATGGTA ATATAACANT ATATGATATA TAANCCTTAA ATGAAA 166

SEQ ID NO:2979

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03522

SEQUENCE DESCRIPTION:

GATCTGGGCG GGGTGGTGCG CTCCTCAGGG CGGATGCCAC CGGGTCCCC AGGGAATAC 60
 ATGTCCCAG CTCTGGGAGG GGTGTGCTAC TGGCCTCCTA CTTTCCTCC TAGGTGGACA 120
 GTGCTCCTCT AGAGAGCTGC GACTTTAATT AAAACAACA GGAAA 165

SEQ ID NO:2980

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03523

SEQUENCE DESCRIPTION:

GATCAGTGTC AGATATTGTT GAGGGAAGTA ATTTTATAAA GTTACACAAA GGTAGTTATA 60
 AAAAAAGCCC AGTTTGT TTTT TCAGAAGGTG ACTTTNATGT GCTTGAAAAG TTTAATATTT 120
 GANTATTGTG TTTAACCACA TGGTATTAAA ATTTTGCAAT ATAAA 165

SEQ ID NO:2981

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03524

SEQUENCE DESCRIPTION:

GATCATGAAA TAATGTGCTT TGTAAGGAAGA TTTCAAGTTA TTAGGAAGCA TACTCTGTTT 60
 TTNAATCATG TATAATATTC CATGATACTT TTATAGAACA ATTCTGGCTT CAGGAAAGTC 120
 TAGAAGCAAT ATTTCTTCAA ATAAAGGTG TTAAACTTT AAA 163

SEQ ID NO:2982

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03525

SEQUENCE DESCRIPTION:

GATCCGCCTG CTTCGGCCTC CCAAAGTNCT GGGATTATAG GTGTGAGCCA CCCTGCTCAA 60
 CCAGGTTTNA TTATTTAANT TAGTTAACT TTGGATAGAT TGTATAATAT ATAGTTTAAT 120
 GTAATCATGC TCATATTTTT NAAATAAATA AAACACTATA AA 162

SEQ ID NO:2983

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03526

SEQUENCE DESCRIPTION:

GATCACTGT TGTTTTACTA AAGAAAGATT ACTTAGAGGA AATAAGAAAA ATCATGTTTG 60
 CTCTCCCGGT TCTCCAGTG GTTTGAGACA CTGGTTTACA CTTTATGCCG GATGTGCTTT 120
 TCTCCAATAT CAGTGCTCGA GACACAGTGA AGCAAATTAA A 161

SEQ ID NO:2984

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03527

SEQUENCE DESCRIPTION:

GATCTGAGGT CTAACATTGT TATCCTATAT CATTTTCATC CCAAGTAGTG ATATCTGTGA 60
AATCACAGGT TTGATGTGTG CTAATNATGT ATTCTTCTAA TACATATTAA AAGACATAAC 120
TATCAAAACA AAATAAATTT GTCTGTTTTT AACCAAAGAA A 161

SEQ ID NO:2985

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03528

SEQUENCE DESCRIPTION:

GATCTCCATT TGATATTTTC ATTTGTATAA CTCATTTGCA GTCTGAAAAT TTTTTTTAGT 60
GCCAGTCCCT GAACATATCA TTGAAAGTTA ATTTCTTTG CATTTTAAAA TATCTGGATT 120
ATGAAGAAAA AGTGATGAAA ATAAATTAAA ACTGAATTAA A 161

SEQ ID NO:2986

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03529

SEQUENCE DESCRIPTION:

GATCTGTGCT AGCTGTGAGG CAGCTCTGGA ACGTGAAGAG CTGTTTGGTT TGAACCGTGA 60
ACAAAACGTG GTTTTGAGTT TAGCTGACAT TATGGAAAAA AGTTCATCAC GTGACTGTTA 120
ATGTAAACCT GGTATTAAA ATAACNATGA AATTACCAAA 160

SEQ ID NO:2987

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03530

SEQUENCE DESCRIPTION:

GATCTCTCTG TNACTGACTT TGTGACTGTC CTGTGGTTTC TCCTGCCATT GCTTTGTGTT 60
TGGAAGGACA TGATGGGGGT GATGGACTGG AAAGAAGGTG CCAAAAGTTC CCTCTGTGTT 120
ACTCCCATTT AGAAAATAAA CACTTTTAAA TNATAAA 157

SEQ ID NO:2988

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03531

SEQUENCE DESCRIPTION:

GATCAANCA CCTNGGAGTG GTCACCAGGG GGACAGGGAG CCCCCACCA ATGTATCANT 60
GGGTGATTTA TNATGCCTTC TGCCCTTTGG CGAGTGAATG GNTTCCCAT AGGGGAAGTT 120
GGCCTCCCTC CGTGAGCTTT GGAAATNTTT TCTAATN 157

SEQ ID NO:2989

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03532

SEQUENCE DESCRIPTION:

GATCCGAATG GNCTGGGTGA GCACGAATTA CCGAGGCCTT CCCTTTGNTA CAGTCCAGGA 60
TTTGTAAAGN ATGAAGACCC CTGGNCCCCA TTCTNTTGGG GTCCATACAT ACTCTCCGAA 120
GATAGCAACT TGCTTCAGGT CAAAGTNAAC CCNAGAN 157

SEQ ID NO:2990

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03533

SEQUENCE DESCRIPTION:

GATCTCCTTA CGTAGCAGCC AAAATAAATG AAGCAAAAGA CTTGCTAGAA ACAACCACCA 60
AACATTGATG CTTAAGGACC AACTGAAGG AAAAAAAG AGGGGACTTC GAAA 114

SEQ ID NO:2991

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03534

SEQUENCE DESCRIPTION:

GATCTGATTT ACAAGAAAAA GTCAGAGCTA AACACTAGTG ATGGCATAGC ATTACTGAAA 60
TCATTGTTTC TTAATTTTAT TTTACTACAT TGTGAACTTG TGATTCAGAT TCCATTTTCT 120
CAGAGAATTA AAAACAAAAA AAGTACTCTT GTAAA 155

SEQ ID NO:2992

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03535

SEQUENCE DESCRIPTION:

GATCTATTTT TNAGTATGTG GTTCATGCTG TTGTGAAAAA TGTTTTACCT TTNACCTTTG 60
TCAGTTTGTA ATNAGAGGAT TTCCTTTNAC CCTTTGTAGC TCAGAGAGCA CCTGATGTAT 120
CATCTCAAAC ACAATAAACA TGCTNCTGAA GGCAAA 156

SEQ ID NO:2993

LENGTH:154
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03536
SEQUENCE DESCRIPTION:
GATCAAATTA GTAATTNNGT TTATGCTGCT CCTGATATAA CACTTTCAG CCTATAGCAG 60
AAGCACATTT TCAGACTGCA ATATAGAGAC TGTGTCATG TGTAAGACT GAGCAGAACT 120
GAAAAATTAC TTATNGGATA TNCATTCTNN NCTN 154

SEQ ID NO:2994
LENGTH:154
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03537
SEQUENCE DESCRIPTION:
GATCTCATTT ATAATTAAAT TATGTCTATT GGATTGTTTT NATGTACTT NATGTTTTNT 60
NAAGAAATTG TGATTAAATA TAACTTAACG ACTTCTATT TTNCAGTTAT TTTAATTAGT 120
TACTTCATTT AANCTTTTGG CATTNCATGA TTTN 154

SEQ ID NO:2995
LENGTH:153
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03538
SEQUENCE DESCRIPTION:
GATCATATAT GTNTTAGTGG ACAGGGGTCT GAAGTACACT GGAATTTACT GAGAACTTG 60
TTTGTAAGAA CTATAGTTAA TAATTATTGC ATTTTCTTAC AAAAATATAT TTTGGAAAT 120
TGTATACTGT CAATTAAAGT GTTTTTGTGT AAA 153

SEQ ID NO:2996
LENGTH:153
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03539
SEQUENCE DESCRIPTION:
GATCAAATA CACATGNGTT TTCATTCCAA AAGTGGGTTC TAAANGCCTG GCTGCATCTG 60
TATGNAATCA AGGCACACTC CAGGAAGACT GCCGCGTCGC GCCAACACGT CATACTCAAT 120
GCCTCAGACT TTCATATTTC TGNNGTGCTG NNN 153

SEQ ID NO:2997
LENGTH:152
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03540
SEQUENCE DESCRIPTION:

GATCCCAGCA TCTTCTCCAC TTCAGCGCTG AGTTCAGTAT ACACAAGTGT CTGCTACAGT 60
CGCCAAATCA CCAGTATTTG CTTATATAGC AATGAGTTTT ATTTTGTTTA TTTGTTTTGC 120
AATAAAGGAT ATGAAGGTGG CTGGCTAGGA AA 152

SEQ ID NO:2998

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03541

SEQUENCE DESCRIPTION:

GATCATTTGG ATATAGCAAT CTA CTCTGAG AAATGGAACA CAAGGAGTTA CCTATCACTT 60
TCACTTATAA TTCAAAAAGA TGACTACAAC CATGTCCATG CTCAGATTCA AACAGTTTTT 120
CATATCACTT TTGGGTGGTA ATTACAGTTT TN 152

SEQ ID NO:2999

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03542

SEQUENCE DESCRIPTION:

GATCCCTGTN TGCNCGNCCC CTCTGCAATG TATGCCCTT GCCCCTTCCC CACACTAATA 60
ATTTATATAT ATAAATATCT ATATGANGCT CTAAAAAAA CATCCCAACC AAAACCAACC 120
AAACAAAAAC ATCCTCACAA CTCCCAGGA AA 152

SEQ ID NO:3000

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03543

SEQUENCE DESCRIPTION:

GATCCAGAAG CAAACACAAG CAATGCAAGA CCTCCACAGA GTGAGCTTGG AGAGAGAGAA 60
AGCCAAGATA AGAGAGGAGT ATGANGAGAA ANTCAGAAAG CTGGAAGATA AAGTGGAGCA 120
GGNAAAGAGA AAGANGCAAA TGGNGANGAN N 151

SEQ ID NO:3001

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03544

SEQUENCE DESCRIPTION:

GATCTGGAGA TAANTTTATG CCTTTGGCCA TAGACAGGAC TGGAATCCCA GTTCTGCCAC 60
TTACTGGCTG TTTGACCTTA GGCAAGCCAC TCCTCCTTN TNAGCCTCAG TTTCTTTNCC 120
TGTAAGATAA AAAGAATGAN TCATTACTAA A 151

SEQ ID NO:3002

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03545

SEQUENCE DESCRIPTION:

GATCAGGGCT GGGGCGGGGA AACAAGGGAA GGACCTTGA AGGGGCTGNN CCCAGGCCTG 60
GGGGGCAGTC GTGGGAGCCC CTCTCANCTG TGGGGCTGGC ACAGAGCCCC AGGCAAGCTT 120
TTAATAAACT GTTGGTTATT CTAACAGAAA 150

SEQ ID NO:3003

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03546

SEQUENCE DESCRIPTION:

GATCTCAAAA ATAGGTAATT TTTCTTTGCC GACCTGTAAA AGTGTGCCAA TACTACTAAAT 60
TTGTGATTTT AAATTAATTC CTCCAGCTGT TGAAATGAAG TCTGCCAAAT CTTGCTCTAA 120
CAAATAAAAT GTTATCTAAA TGAAGTAAA 149

SEQ ID NO:3004

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03547

SEQUENCE DESCRIPTION:

GATCCTAAAA GGGAAAATTG CCTTGTAAC TTNAGATTC CTGTGGAATT GTGAATNCAT 60
ACTAAGCTTT CTGTGCAGTC TCACCATTG CATCACTGAG GATGAAACTN ACTTTNGTNT 120
TTNGGAGAAA AAAAACTGTN CTGCTTGTN 149

SEQ ID NO:3005

LENGTH:242

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03548

SEQUENCE DESCRIPTION:

GATCCTAGGA TGCGTCCCAG ACGCTCAGTC AGAAGTGCTG GAGGTGGGGC CTGGGAAGCT 60
GTATTTGTAA TNAACTCTGG NGTTTTTGT CCATTAAAGT GTATCTTGT CCATCCTATA 120
AGNTTANNGG AAAGAAAAAG CATCTCAAAT NAGTGTAAGT TGTTCTTGAG AAAAAAATGT 180
ATCAGACTTT TATGATTTGA ATGAAATGTA TTATAGNAAA ANATAAACAC NTTTAAANTA 240
AA 242

SEQ ID NO:3006

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03549

SEQUENCE DESCRIPTION:

GATCCAGTTG TACTTAAGTG TGTAACAGGA ATATTTTGCA GAATATAGGT TTAAGTGAAT 60
GAAGCCATAT TAATAACTGC ATTTTCCTAA CTTTGAAAAA TTTTGCAAAT GTCTTAGGTG 120
ATTAAATAA ATNAGTATTG GGCCTAAA 148

SEQ ID NO:3007

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03550

SEQUENCE DESCRIPTION:

GATCATCGTG CTCTCAGACT CTGATTAGCT GCCTCCCCTT CTCCCTGCCT CCAGAATGTT 60
CTGGGATAAC ATTTGGAGGA AGGTGGGAAG CAGATGACTG AGGAAGGGAT GGAATAAGCT 120
AATCCCTTT TGGTGGTGTT TCTTTAAA 148

SEQ ID NO:3008

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03551

SEQUENCE DESCRIPTION:

GATCAGTCCA CCCAGAGTTA GACATTGTTT TTGTAGAAAA CAGGTATTTA TTATGTCTAG 60
GGTTTTGTGT TTTTTTTTTT TCCTNANAGG NTAAAAGCCT TTATACAGAA ANAATTGGA 120
ACCTTTNATA TAAAACCTTT TCTTTAAA 148

SEQ ID NO:3009

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03552

SEQUENCE DESCRIPTION:

GATCGCTGTG GTTCTTATTA TCAAAATTAA GTTTACTTGT ATACGGAACA ACCACAAGAA 60
ATTTGATTCT GTAAAGAATC CTCTTTAGCT GTGGCCTGGC AGTATATAAA TGGTGCTTTA 120
TTTAACAGAA TACCTGTGGA GGAAATAAAG CACACTTGAT GTAAAANTAA A 171

SEQ ID NO:3010

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03553

SEQUENCE DESCRIPTION:

GATCTTTTTA TTTTGCAATC CTGGGCCAGC TAGAAGCCAG GAGCTGATTG ACCTTTTAAAC 60
TTTTTTCAGT GGCCACATTT TGGTTATCGA TGTACCTAGA AGTATGTAAA TNAGATTAAA 120
TTTCTCTTCT GGAAACACCC TGAAA 145

SEQ ID NO:3011

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03554

SEQUENCE DESCRIPTION:

GATCATAGAG AATGGTGCTT TTTACTACAG TTAGCACATG CATTTTTAGA AACTACTACA 60
TGTTT TAGAG AATCTTTGCT GTGTATATGT AACTGTATT GTTCAACTGT TAACAAATAA 120
TAAATTATTT CATTATTAAA GAAA 144

SEQ ID NO:3012

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03555

SEQUENCE DESCRIPTION:

GATCTGCCCT NCTCCTTCTA AAGGGTAAGT CATAATCTGT GTAATACTAC AATTNATGGG 60
NTGCTCACTA TGCCCTGTTT CTNTNCTAAA CAATTTACAT GTAATGTCTC ATTCCTCACA 120
ATAACCCTTG TAAAGTGGGC ANNN 144

SEQ ID NO:3013

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03556

SEQUENCE DESCRIPTION:

GATCCCCAGC TGCCTCACTT CTCTCTTGAG AACTTGGCTC AGGGCTCCTG AGGACCTTTC 60
CCAGCATTAC CTTCCCTTCC CTTGAAAGGC AATTGTTGGC TGTTTTTATA AGCAGGAAAA 120
NTAAACAGAA GTATAAAGGA AA 142

SEQ ID NO:3014

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03557

SEQUENCE DESCRIPTION:

GATCAAATGT GCCTTAATAA ATTTNTTTTC ATTTAGATTT CAAACAGTGA TAGACTTGCC 60
ATTTTAATAC ACGTCATTGG AGGGCTGCGT ATTTGTAAAT AGCCTGATGC TCATTTGGAA 120
AAATAAACCA GTGAACAATA AA 142

SEQ ID NO:3015

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03558

SEQUENCE DESCRIPTION:

GATCTAAAGA AACAGTTGGC TGTAGCTGAG GGGAAACCCC CTGAAGCCCC TAAAGGCAAG 60
AAGAAAAAGT AAAAGACCTT GGCTCATAGA AAGTCACTTT AATAGATAGG GACAGTAATA 120
AATAAATGTA CAATCTCTAT ATACAAA 147

SEQ ID NO:3016

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03559

SEQUENCE DESCRIPTION:

GATCCCAGCA ATGAACTGTT CTAGGGAAAG TGGCTTCCTG CCCAAACTGG ATGGGACACG 60
TGGGGAGTGG GGTGGGGGGA GCTATTTCCA AGGCCCTCC CTGTTTCCC AGCAATTAAA 120
ACGGACTCAT CTCTGGCAAA 140

SEQ ID NO:3017

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03560

SEQUENCE DESCRIPTION:

GATCTCAGCT TTGAGAAGCC TTCAGCTCCA GGAATCCAA GCCTCCACAG CGAGGGCAGC 60
TGCTATTTAT TTTCCTAAAG AGAGTATTTT TATACAAACC TACCAAAATG GAATAAAAGG 120
CTTGANGCTG TGGCCTGAGT GCCTCACTGG AAA 153

SEQ ID NO:3018

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03561

SEQUENCE DESCRIPTION:

GATCACGAAG GTGGTTTCC CAGGGCGAGG CTTATCCATT GCACTCCGGA TGTGCTGACC 60
CCTGCGATTT CCCCAAATGT GGGAACTCG ACTGCATAAT TTGTGGTAGT GGGGGACTGC 120
GTTGCGGCTT TAAA 134

SEQ ID NO:3019

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03562

SEQUENCE DESCRIPTION:

GATCTATCTT NCAGAAAGTA TGTTTTTCCT CATAAAAGTG CCTCTTAATT GGCCATTGTA 60
CCAGCCACTT GTCCTAGCCA AATGTCCAAA ACACGCCCTT GGGCCCCGCC ACGTTACAAT 120
CCACANNNN N 131

SEQ ID NO:3020

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03563

SEQUENCE DESCRIPTION:

GATCACTGTN ATGTGTGGTC CATCTCTGAC CAAAACGTTA TGCAGTACGT GACTGTATCC 60
TNATCCTCAA TAATCCTTGG TTATTATTCT AGAATTTCAA ATAAATGGAA TCATATCATT 120
TACTATGTAA A 131

SEQ ID NO:3021

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03564

SEQUENCE DESCRIPTION:

GATCCAGTGA ATGATTCAAG AGAGCTACAT TTGAAGCCTG TACAAAAGCT TATCCCTGTA 60
ACACATGTGC CATAATATAC AAACCTTCTAC TTTCGTCAGT CCTTAACATC TACCTCTCTG 120
AATTTTCATG AATTTCTATT TCACAAGGGT AATTGTTTTA TATACACTGG CAGCAGCATA 180
CAATAAANCT TAGTATGAAA CTTTAAA 207

SEQ ID NO:3022

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03565

SEQUENCE DESCRIPTION:

GATCCTGAGA ATTACTTTTA ATAAAATCAT TTTTTTGCTG TTATTAAAAC TAGNCNNGAA 60
TTGCCTAAAN CCAAGAACTC TGCTTGATAA AATAAGCATA GTNTTAGGAA CAGCCATGCA 120
GATATAANTN 130

SEQ ID NO:3023

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03566

SEQUENCE DESCRIPTION:

GATCATCGAC CCCCAAGGGA CCCGCAGACC CTTAAAAAAA TCACCCACAA CCCTCTGGAA 60
GTGGCCTTGC CCGGTCCCCT TCCCAGGGGC GAGGTCGGCA AAGCAACATG GCAGAGCAGT 120
CATAGGAAA 129

SEQ ID NO:3024

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03567

SEQUENCE DESCRIPTION:

GATCACCTTT TTTTATATGC GTTGTGAATA GCAGTCTGCA TCCTAAGTTT AAAATATTTG 60
AGAATCCTCT ATGGGACTCT CTGTAAATNT TTAAATACT GTTGTTTTCA ATAAATATTT 120
TATACTAAA 129

SEQ ID NO:3025

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03568

SEQUENCE DESCRIPTION:

GATCAGCTGT CCTCTCTGAA AAAAATTGCA CCNNTTTTTC TTTTAAAAA TTTTGTTGCA 60
TCTTCGTAGT AATGTAATTG TATTTTATGC CTGCTTTTTT ATAAAAAAT AAAATAAAAT 120
AAATGGAAA 129

SEQ ID NO:3026

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03569

SEQUENCE DESCRIPTION:

GATCTAAATN TGACTGTGGT TGCACATATC TGTGNATATA CTAAAAACCA NTGATTTGTA 60
CACTTTACAT GGGTGAGTTG TATGGTGTGT GAATTATATT TCAATAAAGC TGGGTTGTTT 120
TTTGTCAAN 129

SEQ ID NO:3027

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03570

SEQUENCE DESCRIPTION:

GATCCCAGGA TTCAGTATTC CTGGCCCAGA GGNCNTTGCT GGCTACTGGG TGTTAGTTTG 60
CAGTCCTGTG TGCTTCCCTC TCTTATGACT GTGTCCCTGG TTGTCAATAA AATATTCCT 120
GGCCTCCTGG AATCTNTAAA 140

SEQ ID NO:3028

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03571

SEQUENCE DESCRIPTION:

GATCCTACGA CAGGACCCAG ATGCCAGTGA AAGTGACCAC AGCCCTGCTC TAGTCACCCC 60
GGAAGCTGAC CAGTCTACGC ACGGCCGAAG CTTCTGCAAG GAAGTAAATG TAGTTAGAAA 120

TCTTAAA

127

SEQ ID NO:3029

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03572

SEQUENCE DESCRIPTION:

GATCTAGAGT ATAAGCTGCG CAAGGGCAGA AGTTTTTATC TGGTTTGTTT ATGGATGTAT 60
TCTAAGAGCT GAGAACAGGG CCTGGACACA ATAAGCATT C AATAAATATT TACTGAATGA 120
ATGAACTCCT ACCTATATTC CTATTTATAA TTTGGCTCCA CTTTATCCTA CTTTAGCTCC 180
CATTCAATTC AATAAAAAAA ACATTTTTTN GNACACATAT AAA 223

SEQ ID NO:3030

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03573

SEQUENCE DESCRIPTION:

GATCCATCTC AGTCACTTTT TCCCCTGCAA TCGTCTTGT GAAATTGTGT AGAGTGTGTTG 60
TGAGCTTTTT GTTCCCTCAT TCTGCATTAA TAATAGCTAA TAATAAATGC ATAGAGNAAT 120
TAAACTGTGA AA 132

SEQ ID NO:3031

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03574

SEQUENCE DESCRIPTION:

GATCCAGTTT TNCTACAAAG AACAAAGTGG TTGACAACAG TGACAGTAAT TNCTGGAGCA 60
AAACCAAAAG ACATAGGTAA AGANCATATA ATTGTTAATA AAGCACACTG CTTTCAACAC 120
AAA 123

SEQ ID NO:3032

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03575

SEQUENCE DESCRIPTION:

GATCCAAGTG TTTTAACAAT TGGGGCTGTT AAGTCTGACC ATACATCACT GTGATAGAAT 60
GTGGGCTTTT TCANGGGTGA AGATACAAGT CTTAACCACA GTGTAACCTA CAGTTTCCTT 120
TAAA 124

SEQ ID NO:3033

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03576

SEQUENCE DESCRIPTION:

GATCAGAGCA AGCCTTGCCT CTTATCTTCG GGAAACCAGA ATATGTTTGG GGTGGTAGGA 60
GCCACACAGA CTCTTCTGAG CCCCTCACT CACTTCCTTC CCCCTGTGCC TTCCTTTGA 120
GAGTGAAGGT GGGTNGAGTT GACCAGAGAA AGGGGAGAGA ATTCGGGAAA GACCCAAAGT 180
NTTTGTAATT CTTCTTTGTC CTTTACCTA CAGAAATGGT CACATGGTTC TATTAAATA 240
GCCTAATAAA CACATCTGGA GCCTGTCAAA 270

SEQ ID NO:3034

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03577

SEQUENCE DESCRIPTION:

GATCTCAAAG ATACACAGTA CCTACTTAAT TCCAGCTGAT GGGAGACCAA AGAATTTGCA 60
AGTGGATGGT TTGGTATCAC TGTAATAAAA AAGAGGGCCT GGGAATTCTT GCGATTCCAT 120
CTCTAAA 127

SEQ ID NO:3035

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03578

SEQUENCE DESCRIPTION:

GATCCCTACC TGCTCCCCGC TCCGGTTGCC AGCAGCACTC ACTGCACTCC TTTGTCATAT 60
ACTCTGCATC ACTGTCATAC TCACANCTTC GTGAATAAAG TTGTGTGCTT TATTCGTAAA 120

SEQ ID NO:3036

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03579

SEQUENCE DESCRIPTION:

GATCAGGGAC CTCACGCATC TTTTCTCAT ATACATGGNC TCTCTGTTGG CCTGCAAACA 60
CATTTNCTTC TCCGCTTATN AGACTATTTA NCTTTAATAA AGCACTGGAT ATAAATCAAA 120

SEQ ID NO:3037

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03580

SEQUENCE DESCRIPTION:

GATCTAAAGC TNAACAATGA AAATCTTCAG CAGAAATAGA AATNGCCGTG GATTGTAATA 60

CACACTGAAA TTCTNACTTT CTGAATTTAA ATGTAGAATA AATTNACCA ACTTGGAGTA 120
CTGTATGAGT ATTCNAGTA GGGGGAATAA ACTCAAANTT ATATTNTNT TGCAA 176

SEQ ID NO:3038

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03581

SEQUENCE DESCRIPTION:

GATCTGAAAT GTCTGAGAGT AATAGTTTCT GTTGAATTTT TTTTGTTC TTTTCTGCA 60
CAGTCCATTC TGTTTNATT ACTATCTAGG CTTGAAATAT ATAGTTTGAA ATNATGAAA 119

SEQ ID NO:3039

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03582

SEQUENCE DESCRIPTION:

GATCAGAATA TGACATTGCA GTAAAGNGCT TAAATAGTTT CATCTNTGGT TTTTTTTTCT 60
AGACACTTTT CTTTATCCC AGNCATCTCT GAATTTACAT TTTATATTAA AGAAATTGAG 120
CTATCCATAC AACCTGTATT TACTTTAATT TCACTATGCT TTCAGCTTAC TTTATTGTAT 180
GNTATGTAGG TCTAAATAT AGTTTGAGTC AAATAAAATT AGGGGGGCTT TAAA 234

SEQ ID NO:3040

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03583

SEQUENCE DESCRIPTION:

GATCATGACA CTNAAGCGTG ATGAGACGCT CCAGGATGGC TGTNATACTC ACTTCTGCAA 60
GGTCAATGAG AGAGGAGAGT ACTTCTGGGN GAAGAGGGTC ACAGGCTNCC CACCCTTTNA 120
TGAACACANG TN 132

SEQ ID NO:3041

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03584

SEQUENCE DESCRIPTION:

GATCCCTAAA AATGTTGAGG GACTTCTGTT CATTATCCC GAGAACATTG GCTTCCACAT 60
CACAGTATCT ACCCTTACAT GGTTTAGGAT TAAAGCCAGG CAATCTTTTA CTATGAAA 118

SEQ ID NO:3042

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03585

SEQUENCE DESCRIPTION:

GATCGGACCG TTCATGCTGC CTATAGGCAT TATGTCCCTC AAAAAAAAAAC TCCTTTNCCT 60
GCATCCTGTG TACAACATGA CATTTTAAAC CAATCCAATC TAAAAATGTN CCAGAAA 117

SEQ ID NO:3043

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03586

SEQUENCE DESCRIPTION:

GATCAGAAGT GGCAGTCTAT AACTNAAAAT GTGGTAAAGT ACTTGANGCA AACATCCCGC 60
ATCGCTGTTG GACCTCTNAN ACTTTCTACT TTAACAGTTT CACAGTCTTT NCCAGTN 117

SEQ ID NO:3044

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03587

SEQUENCE DESCRIPTION:

GATCTCCTCC ACCCTGTACC AGGCAGCAGC TCCAGTCCTC ACACCAGCCA AGGTCACAGG 60
CAAGAGCAAG AAGAGAAACT GACCCTGAAT GTTCAATAAA GTTGATTCTT TGTAAG 116

SEQ ID NO:3045

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03588

SEQUENCE DESCRIPTION:

GATCTGAAAT CNNGGTCTTC CAAGGNAGAA AATCGANCTG GGAATAAAAG AGAAGACCTG 60
TGATGGGGCA GCAGTGACGC NCTGTGGGGG GACAGGTGGA CGTGGAGAGC TCTTTN 116

SEQ ID NO:3046

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03589

SEQUENCE DESCRIPTION:

GATCCTGAAG AAATCATATG TTAAACATAC TTTNACACCT ACTGTGTTAT AAAATATATC 60
ATCAGATGTG CCTTGAGAAT AGTATATGTA ACATTAAAAA AAAGTTGCTG GCTAAA 116

SEQ ID NO:3047

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03590

SEQUENCE DESCRIPTION:

GATCCTTGGA CTTTGTGTTT TTGATTNTAT GTTGATATTC TAAAAACATC TATTTTAATG 60
TTATTTCTGT TCTAAAAATA AGATAATAAA TATTAACAAA CTTTGCTTTT TTAA 115

SEQ ID NO:3048

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03591

SEQUENCE DESCRIPTION:

GATCTCAACA AGAAGCTGTA TTTAAGTAT TAAGACAGTT CTTTGTTAGC TGGTTTCTAG 60
TTGGTTATCT AGTTACCAAT GCTGCAGTCC TGCAGTCACC TATACATTAT TTAAATNTAT 120
TTAACTGTTA AATGCGCTAC CCACCAATAA TGAAATAGAC CTTTATGAAA ACTGTGAAA 179

SEQ ID NO:3049

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03592

SEQUENCE DESCRIPTION:

GATCCTGAGG AAAGACTTGG AAGAGACCAG CATGTCTTCA GTAGCCAAAC TACTTCTTGA 60
GCATAGATAG GTATAGTGGG TTNCTTGAG GTGGTAAGGC TTTGCTGGAC CCTGTTGCAG 120
GCAAAAGGAG TAATTGATT AAAGTACTGT TAATGATGTT AATGATTTNT TTTTAACTC 180
ATATTATTGG GATTTTCACC CAAAATAATG CTTTTTGAAA AAAGGAAAAA AAAACCGGN 239

SEQ ID NO:3050

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03593

SEQUENCE DESCRIPTION:

GATCTTGGCT TTCTNTTCC TCTTCTCCTN CAGGGTGTCT GTNACTGCNN GGTACTTCCA 60
GCCAACCTCG TGAGCCAGGC GCCCCAGATA GGCAAACTTT CTTGTAGGCT TCAN 114

SEQ ID NO:3051

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03594

SEQUENCE DESCRIPTION:

GATCTGTATA TGCTATCCTA ACTGTTAATT GTATTATTGA TTATNTTGAT TATCTTGCTT 60
GAAGGTTTCACT ACTTTTCAAT TTGATAGAAA TAAAGTTTTT NCCTGCTTAT AAA 113

SEQ ID NO:3052
LENGTH:113
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03595
SEQUENCE DESCRIPTION:
GATCCTCTCT TCATTTTACT CAGCCAGGTT TTGTACTGAT GTACAGGTGT TAAATNACTT 60
CAAGTATTTT TGTAAGAGGT GTATATAATT CAATAAAAAA GGTAAAACAT AAA 113

SEQ ID NO:3053
LENGTH:161
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03596
SEQUENCE DESCRIPTION:
GATCGACAAG GAGTACTTGC TAAAAATGGC AACAGAGGAG TGAGGAGTGC TGCTGTAGAT 60
GACAACTCC ATTCTATTTT AGAATAAATT CCCAACTTCT CTTGCTTTCT ATGCTGTTTG 120
TAGTGAAATA ATAGAATGAG CACCCATTCC AAAGCTTTAA A 161

SEQ ID NO:3054
LENGTH:111
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03597
SEQUENCE DESCRIPTION:
GATCCGNACC CCAAGCCCAT GCAACCCACG CTCGGTCCCG TTCCGGCCCC TGCNCCCCGC 60
TGCNCTTCGC TCCCCGNCCT TGCNCCGTTA GTAAACATCG CTCAAACGAA A 111

SEQ ID NO:3055
LENGTH:110
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03598
SEQUENCE DESCRIPTION:
GATCTAACAA GTTACATTGT ATAGTTTCTG GGACTGTTTG AATATTCTAT TCCAATGGGC 60
ATTTATTTTT TATCCTGTCA TTAAAAAAA AAGACTGTTA CCCTGCTAAA 110

SEQ ID NO:3056
LENGTH:109
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03599
SEQUENCE DESCRIPTION:
GATCTCCTCC ATCCTGCTGC CCACCCCTCT TGAGTGTCTT AAGGGACAGA NCTTTCCACC 60
CCTGGAAGAT GGAAATAAAC CTGCGTGTGG GTGGAGTGTT AGGACCAA 109

SEQ ID NO:3057

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03600

SEQUENCE DESCRIPTION:

GATCAGAGTG TTNTAAATCA TCACGCCCTT AGCTTATCCC TNGTCGAGCC AGGACACGGG 60
GTGCTTCAGT GGGTCTGTNA CCCTCTCTCC TTGAAGCATG TTGCTGNNN 109

SEQ ID NO:3058

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03602

SEQUENCE DESCRIPTION:

GATCCCTGAA TGTGAACCTG AAGTTCAAAG GACTTGAAAA GCTCTGGAAT GTGTTGGTTT 60
TTCCCCCCCC AAATGGGTCC TAAGGAGGGT AAAGTGACTT GTTCAAA 108

SEQ ID NO:3059

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03603

SEQUENCE DESCRIPTION:

GATCAGTTTC TTTNGCTTCA AGATTTGAAA CCAGAAAGGA AAGTCCNACT TGCAGATGAT 60
TGTCCTTAAA ACCTAATGGA AAANTAAAAG ANAGACATAC CATGGAAA 108

SEQ ID NO:3060

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03604

SEQUENCE DESCRIPTION:

GATCCATCAT TGTTCAAAA CTTCACTGTC AAGAACCCTT TCGTTGCATA ATGTGCAAAT 60
AGTTAAACC ACTGTACTAT AACTTAAAA ATGATTAAGA TAGTAAA 107

SEQ ID NO:3061

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03605

SEQUENCE DESCRIPTION:

GATCTGGCAG CTGAGGCCCG AGGCAGGGTT GGNGTGATGC CAGGGCAAAG TGGTGAGGAG 60
AAAAACAGGAA NCGGGCTTTC NCCNCATTGG TAAATGGGAA AGAGGTGAGC AACTTAAGAT 120

TGTCACAATT AATCACAAGT GTACAGGATT AGACTGGGTT TATATTTAAC TCTTGCTNCA 180
TAGGTGTACC ATTTAAAGAG TGTTATTAA TGCTAAGTTT AACTGCTTA ATAAAGTTA 240
TTTTTAAATA AA 252

SEQ ID NO:3062

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03606

SEQUENCE DESCRIPTION:

GATCAACAAA ATAATTGTA TCTCCTGCTT AANTCCTTTA TACTACCTGG NGAAAAGTAT 60
TTCCCATATT TCCAATAAAT GTCAGACACT ATTGAGAAAAG AAA 103

SEQ ID NO:3063

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03607

SEQUENCE DESCRIPTION:

GATCCTGNAT NANGCCCGGG CCAGCGAGTG CAGGGACGTG GAGGGNTTCA AAACCGAGAT 60
GGCCATGCTG GTGACCCAGG CCAGGAAGAA CACCATCACC CNN 103

SEQ ID NO:3064

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03608

SEQUENCE DESCRIPTION:

GATCCTCACA GTCAAGTGAC GAGGCTGGGG CTGAAAGCAG AAGCATGCAC AGGGAGGAGA 60
CCACTTTTAT TGCTTGTCTN GGTGGATGGG TCAGGAGGGT CTGAGGGCCT GTCCCAGACA 120
ATAAAGGTNC CCTCAGCGGA TGTGGGCCAT GTCACCAAA 159

SEQ ID NO:3065

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03609

SEQUENCE DESCRIPTION:

GATCCTATCG CCTTTNAGTA GAATATGAAA TATTCTTTNA GAAATCCAAT ATAAATAGGT 60
TATAATAGCC ATATNCTTNA TNACTTTATT GAGATATAAT TN 102

SEQ ID NO:3066

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03610

SEQUENCE DESCRIPTION:

GATCTNAGCT CCCACCTCCC TTCCCACCTA CTGCACTTTC CCCCTTCCCG CCTTCCAAAA 60
CCTGCTTCCT TCAGTTTGTA AAGTCGGTGA TTATATTTNT GGGGGCTTTC CTTTNATTN 120
TAAATGNAA AATTTATNTA TANTCCGTAT TTAAAGTTGT AAAAAAATA NCCACAGAAC 180
AGNGAN 186

SEQ ID NO:3067

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03611

SEQUENCE DESCRIPTION:

GATCTCAGAC AGTGTGCGGC GGCACATGAG CGGCTTTCCG CAGTGTCTTG TTTGAGCCA 60
CTGCAGTCTG GGCCCCATCA TTAAACGGGC TCGTTTAAA 100

SEQ ID NO:3068

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03612

SEQUENCE DESCRIPTION:

GATCTCCAGT NAGACTCCAG GGTCTAGAC AGAGGCCAGT NTTGGCCACT CACCCACAC 60
CCCGCGGACC CCAATAAAGG CTTGCATAGC TCCAGAAA 98

SEQ ID NO:3069

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03613

SEQUENCE DESCRIPTION:

GATCCTGAAG CTTNACCGGG CTCCAAAGGG CAAATGGAGC TGCCCTCNTC TGTATCAGGT 60
TTATTGGTTG TACATATAAA TNATACTTNC CTTTCAAA 98

SEQ ID NO:3070

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03614

SEQUENCE DESCRIPTION:

GATCCTGTTT AACAAAGATA CTTGAGACAT CCATTTGTTT TAATGAAATC TGTATGGATA 60
TGGAAATNCT TGCCCTAATA AAAGCCTACA TATACCTTCT GGTAAA 107

SEQ ID NO:3071

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03615

SEQUENCE DESCRIPTION:

GATCTNTCCG TTCTCAGGCC AGACCCCTGG TGCTGCCGTT AATTTTTTTT TCTCTGTCTT 60
TGCTGCAATN TTNAATAAAA ATGCCAAAGA ACACAAA 97

SEQ ID NO:3072

LENGTH:95

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03616

SEQUENCE DESCRIPTION:

GATCCTAAAC AAATCATCTT TGTCAGTTAA GTATAGTTGC GCAAAAATTG TTAAATCCTT 60
TGTCTTTATT AAAGAAAAAT TTGAGTAACA TTAAA 95

SEQ ID NO:3073

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03617

SEQUENCE DESCRIPTION:

GATCTAAGTG ATGAGTCTAG GTGTGTTATT GTNCAGTTTT TNCAACTTTC CTGGAAAACG 60
AACTTTTCAA AATAAAAAAT TGGAAAAATA GAAA 94

SEQ ID NO:3074

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03618

SEQUENCE DESCRIPTION:

GATCACTTTG AGAAACAAAC TTTTATTAAA TGTAAGGCAC TTTTCTATGA ATTTTAAATA 60
TAAAAATAAA TATTGTTCTG ATTATNACTG AAAAGATGTC AGCCATTTCA ATGTCTTGGG 120
AAACAATTTT TTGTTTTTGT TCTGTTTTCT TTTTGCTTCA ATAAACAAT AGCTGGCTCT 180
AAA 183

SEQ ID NO:3075

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03619

SEQUENCE DESCRIPTION:

GATCTGCCAT ATTTGNTNTT GGTTTTAATT TTCATATCCA GCCTAAAGGT GGTGTTTAT 60
NATATAGTAA TAAATCATTG CTGTACAATA AA 92

SEQ ID NO:3076
LENGTH:92
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03620
SEQUENCE DESCRIPTION:
GATCAGGCTG CCTCCTGGNT TGGNTGTCGG GGGAGCTGTC CGGCAGCCTG GCAGGGAGAT 60
GCAAGGCCTA AAGTAAAATT TTNTCAAGTA AA 92

SEQ ID NO:3077
LENGTH:91
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03621
SEQUENCE DESCRIPTION:
GATCTAGCCC CTTCTTCAGG CCGAGAGAAT TTCGAGCGTT ANCCGTCTCT TGGCCACCAG 60
CTAAATAAAC GGATTCTTCA TGTGTCTCAA A 91

SEQ ID NO:3078
LENGTH:91
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03622
SEQUENCE DESCRIPTION:
GATCTGCTAT TGTTATTTCT CCTCTTTATT GGAAAAAGGC CTCAGTTTAA ATTATTTTCT 60
TCCCAAAATA AATNACACAT TTGGTTACAA A 91

SEQ ID NO:3079
LENGTH:239
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03623
SEQUENCE DESCRIPTION:
GATCCTGCAT CAGCATTGTA TATATGGNCT TAAGTGCCTG GCCTCCTTAT CCTTCAGAAT 60
ATTTATTTNA CTTACAATCC TCAAGTTTAA ATTGATTTTA AATATTTTCC AATACAACAG 120
TTTAGGTTTA AGATGACCAA TGACAATGAC CACCTTTGCA GAAAGTAAAC TGATTGANTA 180
ANTAANTCTC CGTTTNN TTC ANT TNATTC AGTGTAATGA NAANGTTGCT TAGTATTTN 239

SEQ ID NO:3080
LENGTH:196
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03624
SEQUENCE DESCRIPTION:
GATCCCTGCC CTGCACCAGC ACCCTGANAT GGAGCTGAGA CTTTATTTAT TGGGGGTAGG 60

GGGATGGAGG AGGTCCCTCC AACATGTTTG GACCCAGCTC CTTTGGGTTT CACTGACACC 120
CCTGCCCCCTG CCCCTGCCCA GAACCAAGTG CCATTTCTCA CTCTGGAGCC TTAATAAACT 180
GCAATTTGTA TCCAAA 196

SEQ ID NO:3081

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03625

SEQUENCE DESCRIPTION:

GATCTGTGTA CTGTTTACTT CCCACTTCCC AGAATCCCTT GTATCTCCTT TCTCGGGAAT 60
TGTATTTTCT AATAAATGAC ATTTGAGAAA 90

SEQ ID NO:3082

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03626

SEQUENCE DESCRIPTION:

GATCTCTGGA AGTGTAATTN TGAAAGAAAC TTNCTTGCAG CTTTAACAAA ATGAGAAACT 60
TNCCAAATAA AACTTGTTTT GAAGTTTAAA 90

SEQ ID NO:3083

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03627

SEQUENCE DESCRIPTION:

GATCCTCGGG AAGAACAAAG CTAAAGCTGC CTTTTGTCTG TTATTTTATT TTTTGAAGT 60
TTAAATAAAG TTTACTAATT TTGACCAA 89

SEQ ID NO:3084

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03628

SEQUENCE DESCRIPTION:

GATCAATCTT TGATGGTGAG GGTTTTAGAA AGGAAAAATA TAGTAAATG TGTAATTTGT 60
CTTAATAAAA TCTATCTNTA CATCTAAA 88

SEQ ID NO:3085

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03629

SEQUENCE DESCRIPTION:

GATCTAGATT GGGTGAGGGG GACGGGGATG TNAGGGAGGC AAGTGTGTTN TGTTACTGTG 60
TCAATAANCT GGTTTAAAGT TGTAAGTGN GAAA 94

SEQ ID NO:3086

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03631

SEQUENCE DESCRIPTION:

GATCTGAATT TCACAAAAAG TTCATGGAGA AATATATTAA ATAGTACAGT TTTATGTGCT 60
TAATTAAAGA CTGTAAACG TAAAGGAAA 89

SEQ ID NO:3087

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03632

SEQUENCE DESCRIPTION:

GATCATACCA CGGCACTCCA GACTGGGGAC CAAAGTGAGA CCTGTTTCT AAAANTTAA 60
ATATTTAGAA TGTTTCCTAG CAAA 84

SEQ ID NO:3088

LENGTH:82

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03633

SEQUENCE DESCRIPTION:

GATCCCAAGG ATGGAGAACA ACTTACCCAG TAGCTAGAAT GTTAATGGCA GAAGAGNAAA 60
CAATAAATCA TATTGACTCA AA 82

SEQ ID NO:3089

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03634

SEQUENCE DESCRIPTION:

GATCTCCAGA TGTGCATTTT CCTCTCTTAT TTAAAGTTAT GTTAAGATTA CTAAACAAT 60
AAAAGCTCCT AAAAAATCAA A 81

SEQ ID NO:3090

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03635

SEQUENCE DESCRIPTION:

GATCCAACCG TGCCTGAAGC TAGAATATCC CCTGGACTTT TCAGTTATGT GAACCAATAA 60
ATACCCTTTT TTGCTTAAA 79

SEQ ID NO:3091

LENGTH:78

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03636

SEQUENCE DESCRIPTION:

GATCTGNGAN ATATTATGGT AATTGTGTCG GGGCGCCATG AACCGCACCC ATATAACACG 60
GTAAACTTAA TCAGCAAA 78

SEQ ID NO:3092

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03637

SEQUENCE DESCRIPTION:

GATCATGCTG AAAACCACTC AAACGATTAT ATTTTTTACA TTATAAGAAG TAAATATAT 60
TATTCTGAAT AATGAAA 77

SEQ ID NO:3093

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03638

SEQUENCE DESCRIPTION:

GATCTGTGCA TTGCTCCTTC TGATTTGTGC TAAGTTGTGA AATAAGAGGG ACCCTGAGAA 60
AGGCCTTACT CTAAA 75

SEQ ID NO:3094

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03639

SEQUENCE DESCRIPTION:

GATCACACAG CTAACGAGGC TGCCTCCAGC ATTCCTGAT TTCCTCTGTG GTAATAAAAG 60
CTTTCTGTGC TTAAA 75

SEQ ID NO:3095

LENGTH:78

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03640

SEQUENCE DESCRIPTION:

GATCAGAACT TACAAACCAA ACTTTTATTC TGAGAACTG GCTGTACAAT ATNTGAAAAG 60
AAAGTGACAT GNAGGAAA 78

SEQ ID NO:3096

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03641

SEQUENCE DESCRIPTION:

GATCTTTTNN AAGTNTTCTG AAAGGAAGTA GACAGTATTA CACCCTGAAT AAATAAGGTG 60
TTGTTTTCCA CAAA 74

SEQ ID NO:3097

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03642

SEQUENCE DESCRIPTION:

GATCTACTTC CCATGCAGAA GAGAAGTCAC ATCTTCCAGG GAATCGCAAT GTTGTGGCGT 60
CTGACTTGTA TGTCACATTT GTGTAAAATG GTATATNCTT TAAAATAGTG TTGATAACTG 120
GAATATTGTA TGTATGCTTG GAGATGCTTT GTGTGAACCT AAGACTGTCA CTCAACAGAT 180
GTTGGATTGG GGNAAATCCA AAGCACAAC TCAAANTAAN NTACATTTTT AGGTTTCGAT 240
GCTGCAAANC ANANAANANN ACANNAN 267

SEQ ID NO:3098

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03643

SEQUENCE DESCRIPTION:

GATCATGGTG ATGTACGGGG TGAATTCTCT TGCCGTGTTG CAAATGTGTA AAATAAAGAT 60
TATCTGGCAG AAA 73

SEQ ID NO:3099

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03644

SEQUENCE DESCRIPTION:

GATCCNAGNT CTANCGTCAT ATAATCATTT AATATAATTA AAGTTTAATT GCTGAAATAC 60
TTATAATGAA A 71

SEQ ID NO:3100

LENGTH:69

TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03645
SEQUENCE DESCRIPTION:
GATCATGCAA TTCCTTCAAT TATGATGGAA AGACTTGAAC TTTCTGAAAT AAAACAAAAA 60
TACAGCAAA 69

SEQ ID NO:3101
LENGTH:67
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03646
SEQUENCE DESCRIPTION:
GATCCATTTA TTGCAATTCA TGCTGAATCT AAATTATAAA ATTTAAAATT AAATGCATAT 60
CCTCAAA 67

SEQ ID NO:3102
LENGTH:65
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03647
SEQUENCE DESCRIPTION:
GATCCGAAAC CTGTTAAACA ATAAGATGTG TTCTCGGAAA ATNAAACAAG AGGTATCACA 60
AGAAA 65

SEQ ID NO:3103
LENGTH:64
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03648
SEQUENCE DESCRIPTION:
GATCATCTCT TCTCCATAAG ATAGTGTGAT AAACACAGTC ATGAATAAAG TTATTTTCCA 60
CAAA 64

SEQ ID NO:3104
LENGTH:64
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03649
SEQUENCE DESCRIPTION:
GATCGCTCCA ATAAACATAT ATTGTGAAAA TGCATCCACA ATAAATGGAA TTCCTTCCTG 60
CAAA 64

SEQ ID NO:3105
LENGTH:63

TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03650
SEQUENCE DESCRIPTION:
GATCTACCTG TCTTGTTGCC ACATGTTTCT AAACCTTCCA ATAAATCACC TTCTACTGAC 60
AAA 63

SEQ ID NO:3106
LENGTH:68
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03651
SEQUENCE DESCRIPTION:
GATCAGCATC AGGCTGTTAT CAAGTCTGTT GGTGCTAAAA AGTAAANAT GAAATGTTCA 60
AAGAGAAA 68

SEQ ID NO:3107
LENGTH:58
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03652
SEQUENCE DESCRIPTION:
GATCTGTCTG GCTCCNTTGT TTCTTATTAA ATAAAATTCT GTCTTCTATT GTTCAAA 58

SEQ ID NO:3108
LENGTH:58
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03653
SEQUENCE DESCRIPTION:
GATCAGCCTT NNTATAATGT TTTTAAATC ATTTCTAAAT AAAACAGAAA TACAGAAA 58

SEQ ID NO:3109
LENGTH:55
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03654
SEQUENCE DESCRIPTION:
GATCTAGACT TATATGAATA AATNAAATTA CATGCCAAGG GCCCTAAAAA GCAAA 55

SEQ ID NO:3110
LENGTH:53
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03655

SEQUENCE DESCRIPTION:

GATCAGGGCC GAGCAGAACC GCACTCTTCC CAAATAAAGC TTCCTCCTTG AAA 53

SEQ ID NO:3111

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03659

SEQUENCE DESCRIPTION:

GATCATATTT TTNATACAG GTATTTCAT TAAAATGTTT TTGTACATAG TGAAA 55

SEQ ID NO:3112

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03661

SEQUENCE DESCRIPTION:

GATCCAATCA NTTAAATAAA CCTGTATGTA TATGCATATG TNTACATGCA TATCCCCTCC 60
TGCTAAAACT CATAAA 76

SEQ ID NO:3113

LENGTH:451

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03679

SEQUENCE DESCRIPTION:

GATCCCTCAG TTTCTTCTTG ATTTTCAGCAT GTNTCGGGTT CCTAATTTAT GGTATGAGTT 60
AGCAAATTTA ACCATTGTGT TTGTGCCCTA CCCAGGGGAC TCCCAGTTT CTGACTTGAA 120
GTAGACTGAG AAGAATCCAC GAGGTGCTAT CTGGCCAGAT TTAAGTAGAT TCTATTTCTC 180
TGTTTCTCCC TCTCCCTGAG GACCTCTTAT TTNATTGTCC CCTCTTCTAG GTTAATTCTC 240
CTTTGATTTG ACTTTGTTGA GAAGGAGGTT GGACAGTAGA TTAGCAAAGT TCCAAGTGCA 300
AAATTACAGT GTGTTAGAGT GTGGGGGGAA AATTAGTCTT ATTTTCCCT ACATGGGATA 360
CAACACTGTG AATTCAATCT TCAACCTGAA GGGCCCTGCA GTTCCTCCTA AAACATNGTT 420
GTTTGNTTTT CTTTAACCAA GGTTTAAGCT N 451

SEQ ID NO:3114

LENGTH:445

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03680

SEQUENCE DESCRIPTION:

GATCTAAGGA TGACTTGAC AACTCCNTG GCACTGAAGA GTCTGAACAN TGGCCTGTNA 60
TTGGTCCATT CCAGGACCTT CATTTGCATA AGGTATCAAA CCACANCAGC CTCTGATTGG 120
CCATGGGCAG ACCTGCACTN TGGCCAATNA TTGGTTCATT CCAGGACATT CATTTGCATA 180
AGGAGTCAAA CCACANCAGT CTTGGATTGG CTGTGAGCCA ATTCACCTCA GTCTCTAATT 240

GGCNNNGAGT CAGTCTTTCA TTTACATAGG GTGTAACCAT CAAGAAACCT CTACAGGGTA 300
CTTAAGCCCC AGAAGATTTT NCTACCAGGG CTCTTGAGCN ACTTGCTCTA GCCCACTCCC 360
ACCTGTGGA ATGTNCTTTC ANCTTTTGNT TGGTTTCAAG TNCCTTGGTG CTTCCAATAA 420
NTNCCACTTC CTTCAACCACC CNA AAA 445

SEQ ID NO:3115

LENGTH:439

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03681

SEQUENCE DESCRIPTION:

GATCGGCGCC ACTGCTGTCC TGCTGGCTTC NNCTGCGCAG CANGGGGTAC CAAGTGTTTN 60
CCCAGGGAGG CCCCGCGCTG GGACGCCCC TTAAGGGACC CAGCCTTGAN ACAGCTGCTG 120
TAAGGGACAG TACTGAAGAC TCTGCAGCCC TCGGNACCCC ACTCGGAGGG TGCCCTCTGC 180
TCAGGCCTCC CTAGCACCTC CCCCTAACCA AATTNTCCCT GGACCCCAT TCTNAGCTCCC 240
CATCAACATG GGAGGTGGGG CCTCAATCTA AGGCCTTCCC TGTAAGAAGG GGGTTGTGGC 300
AAAAGCCACA TTACAAGCTG CCATCCCCTC CCCGTTT NAG TGGACCCTGT GGCCAGGTGC 360
TTTTCCCTAT CCACAGGGGT GTTTTGTGTG TGTGCGCGTG GTGCGGTTTN AATAAANGTT 420
TGTACAACCT NTGTTTAAA 439

SEQ ID NO:3116

LENGTH:431

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03682

SEQUENCE DESCRIPTION:

GATCTTGAAG TGCTTTTTAT ACAGCTCTCT AATAATTACA AATATCCGAA AGTCATTTCT 60
TGGAACACAA GTGGAGTATG NAAATNNN TATGAATTT TCAGATTATC TAAGCTTGCA 120
GGTTTTATAA TTAGAAGATA ATGTGAGANT TAATGGGGTT TATATTTACA TTATCTCTCA 180
ACTATGTAGC NCATATTACT CACCCTATGA GTGAATCTGG AATTGCTTTT CATGTGAAAT 240
CATTGTGGTC TATGAGTTTA CAATACTGCA AACTGTGTTA TTTTATCTAA TCCATTGCTT 300
AATGAGTGTG TTTTCCATG ATTGAATATA CCGTGGTTCA TATGTTAGCA TGGCAGCATT 360
TTCAGNTAGC TTTTGGTTT GTTGGAAGT TGGGGTTTTG GGGGGAGGGG GGAGTNTTNG 420
TACGTTGCCT N 431

SEQ ID NO:3117

LENGTH:427

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03683

SEQUENCE DESCRIPTION:

GATCAAAGTA TTATATGCTG TGTGCTTTTA AGGTGTTTGT AAGTACTGAA AAAGGCAAAA 60
ATNCTTTCTA CATTGACATT CATTCTATT TNACTGGGCA CCTATGAATG TATGCTGTGT 120
GCTAGAAATA GACTAAAACA TATTCCTATA GCATGTNAGT GTGTTTGCAT GTTTGCTGAA 180
AATCCTTTGT GTATAANCCA GTTTGTAAGG TTCTCTGGGT TAGGTAGGGA CTCTGCAGTT 240

TCTNCCTGTC NAAATCTCTC CTACCAAGAT GGTGTTCCAC TGTCCAGCCC AGCATGAGTA 300
GCAGGTAGNG CACAGCTTTA CTGGCTGGTT TGTATGCTTT GGTTTTAGGT GCAATTGTTG 360
TGGGTNGATT TACTTTNTCC AGAAAACCAT NGTATTGNNN ATGTCCTNGG ACCGGTGGAA 420
AATAGGN 427

SEQ ID NO:3118

LENGTH:423

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03684

SEQUENCE DESCRIPTION:

GATCAAAAAT ATTAGAAAAA ATAAAAANTAA TACAAATAAA AATACAGTAT AACAGTTATT 60
TAAATAGCAT TTACATTGCA TTAGGTATTA GTCTAGGGAT AAAGTATACA GGCGGATGTN 120
CGTTGGTTAT ATACAAATAT GTCATTTTAT GNAANNGACT TGAGTATACT TGGNTTTTNG 180
GTATCTNTGG GTTGGGGGGA CGGTCCAGGA ACCAATACCC CATGGATACC AAGGGACAAC 240
TGTACTIONT TNCNTTATT GTCATTGCAA GCTTCTTATG GAACTTTTAT AGGGAATGAN 300
AATATACATG TTAAGGANGA TTAAACATTA GATAGTAGAT GGTTTGTTGC ATGCTAGAAC 360
TGTTAGTATT GTTGATTCAA TTTCTTGGT TTCATGAAAA ANTAAACGGT AANTATCTTT 420
AAA 423

SEQ ID NO:3119

LENGTH:421

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03685

SEQUENCE DESCRIPTION:

GATCGAGACC ATCTGGCCA ACATGGTGAA AACTCATCTT TACTAAAATA CAAAAAATTA 60
GCCACGNTG GTGGCGCACG TTGTGGTCCC AGCTACTCGG GAGGCTGAGG CAGTGGAGTC 120
ACTTGAACCC GGGAGGCAGA GGTGTCAGTG AGCCGAGATT GCACCACTGT ACTCCAGCCT 180
GGCGACAGAG CAAGATTCTN TNTGCCCCC CACCAAAAAA AAAGANTGAA AACTGATAT 240
TTGCTACAAC ATGGNTATAC CTCCAAAGCA TCCTGTTAAG TGAACACAGG GAGACACAGT 300
CACGTACTAT ATGATTGCNC TTACGTGAAA TATCCACANN GACGNTCCA TGGNGACCAG 360
GCAGATTGCC GNTTGCCAGA GGCCAAGGGT TAGGGAAAAA TTGGTGAGGG ACCCTGCGTG 420
N 421

SEQ ID NO:3120

LENGTH:410

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03686

SEQUENCE DESCRIPTION:

GATCTATGAC TTCTCAAAGC CGGGTCATGA ATGTCCATAA AATGCTAGGC ATTCCTATTT 60
CCAATATTTT NATGGTTGGA AATAATGCTT CANATTTGGA ACTGGACCCC ATGAAGGATA 120
TTCTCATCTT CTCTGCACTG AGGCAGATGC TGCGGGCTGC AGATGATTTT TTAGAAGATT 180
TGCCTCTNGA GGAAACTGGT GCAATTGAGA GAGCGTTACA GCCCTGCATT TGAGATAAGT 240

TGCCTTGATT CTGACATTTG GNCCAGCCTG TACTGGTGTG CCGCAATGAG AGTCAATCTC 300
TATTGACAGC CTGNTTCAGA TTTNNCTTTN GTNCGTTTTN CNTTCTGTCC TTGGACCAGT 360
CATATCTCAN GTTCCAAAGG CCANAACCCT GAGGAGCGGT NNGGCTAAGN 410

SEQ ID NO:3121

LENGTH:402

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03688

SEQUENCE DESCRIPTION:

GATCTGAGGA CCCTGTACTG GTTACTCCTG TACACGTTCA CAATTTTCNT GTAAATNTAT 60
TAATATACTG AGCAGTCCAG GAGCAGCCAT TAGGCAAACA CCACTCCTTG CTTCCCTTCAT 120
GTGACCTATC ACTGAGCTCA CCAGCTGAGG TCAATNACAT TCTTCCCAAC CTGGAGAACA 180
GAATTTGGGT CTGCTCAGAG GCATGATGTG AAACATGTCT GGGATAAAAG CTTTGTTCTA 240
TTGACAGCAA ACCTTTTTGT GTTAAGGGGT AGGGGAAGAG CANGTGAAGG ATGCAGATTA 300
ATTTCTATTT AGGANTATAC TTTTNTATAT NGTTTGAAAT TTTGGNCTTG TAAAAATATT 360
CATCCATNTT TTNACCAANA NAATTTTCCT GTGGACNGGT TN 402

SEQ ID NO:3122

LENGTH:409

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03689

SEQUENCE DESCRIPTION:

GATCAGTTTG ATTCTGTAAT GAGCACAGCA CCTAATATTT TGAGGAGCTC TGTTTTGAGG 60
ACCAATGCTT AAGGTGGACT TTGTTCTGTA ACAATATCCC AATAGATTTG TTGACTTGAG 120
GTCTGGTTTG GTTTTGTTTT TGTTTTGTTT TGTTTTGTTT TGTTTCCAAT AGAATTAAGA 180
ATTCTAATGT TGAAAAACTG CACAAATTTT TATGGGACAA AGCCTAGAAA AGAGAAATGT 240
AGTTTGAATC ATAATCTAAA TCATCGTATG ATAGANGAGG GAAAGTTTTG GTGCCATAAT 300
TTCTCCTTTC ACTGGTGTG GGNCTTAAAT CAAGTTGAAA TGTATTTCTG TACCACAATT 360
TTANGGCTTT CAATAAAAAG TTTTAAATNG TCTAGGTGAC CATTCCAAA 409

SEQ ID NO:3123

LENGTH:400

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03690

SEQUENCE DESCRIPTION:

GATCAACATC CACAGCGAGA CCTCCGTGCC CGACCATGTC GTCTGGTCCC TGTTCAACAC 60
CCTCTTCTTG AACTGGTGCT GTCTGGGCTT CATAGCATTC GCCTACTCCG TGAAGTCTAG 120
GGACAGGAAG ATGGTTGGCG ACGTGACCGG GGCCCAGGCC TATGCCTCCA CCGCCAAGTG 180
CCTGAACATC TGGGCCCTGA TTCTGGGCAT CCTCATGACC ATTGGATTCA TCCTGTTACT 240
GGTATTCCGC TCTGTGACAG TCTACCATAT TATGTTACAG ATAATACAGG AAAAACGGGG 300
TTACTAGTAG CNGNCCATAG CCTGCAACCT TTTGNACTTC ACTTGTGCAA TGCTTGGCCC 360
TGNACGNTGG GGCTGTTGCC CTTGCCCCNT TTGGTCCTGN 400

SEQ ID NO:3124

LENGTH:400

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03691

SEQUENCE DESCRIPTION:

GATCCTTCCT ACTTTGCTTC TNTCCACCCA TGACCTTTTT NACTGTGGCC ATCAGGACTT 60
TCCCTGACAG CTGTGTACTC TTAGGCTAAG AGATGTGACT ACAGCCTGCC CCTGACTGTG 120
TTGTCCCAGG GCTGATGNTG TACAGGTACA GGCTGGAGAT TTNACATAG GTTAGATTCT 180
CATTACGGG GNNGGTTAGC TTAAAGCACC CTAGAGGACT AGGGTAATCT GACTTCTCAC 240
TTCCTAAGTT CCCTTCTATA TCCTCAAGGT AGAAATGTCT ATGTTTTCTA CTCCAATTCA 300
TAAATCTATT CATAAGTCTT TTGGTACAAG TTTACCATGN TAAAAAGGAA ATGTGATTTT 360
GGTCTTCCCC NTCTTTTGCA CTTTTTGAA ATANAGGGTN 400

SEQ ID NO:3125

LENGTH:397

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03693

SEQUENCE DESCRIPTION:

GATCCTNAAT TTNAAAATTT NACACCATCA TAAATNAACA AAGGTAGGAA GGAGTTTGGC 60
TTCAATAGCT TACAGTAAAA GGAGTAAAGG AGTTCAGCCT CAAAACGATA TTGTTGACCT 120
GTNATGTTAT GAAAAATAAT CCAGTGTTTA TACTTAACGG ATGCCATCCC TTATNATTTA 180
CTATTTTCTT AGTCTAACTA AACAATCTTT ATTAATAATA GCAATGATAT TTGACATGGG 240
CCTAAGAAAT ATATAGTTAG CTAACAATAT TGTCAGTTAG AGGGATTTCT TTTCTAAATT 300
AAGTACAGAT TTCTTCACCA AACTCCAGGN TAACAGAAAN GGGGCCATAA AATTTGGNCC 360
ATAGTTTCTG GGTAAATAA NTGGTAATTT TAAANTN 397

SEQ ID NO:3126

LENGTH:392

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03694

SEQUENCE DESCRIPTION:

GATCAAGTAA CATGTTGCAT GTGGCTTACT CTGGATATAT CTAAGCCCNT CTGCACATCT 60
AAACTTAGAT GGAGTTGGTC AAATNAGGGA ACATCTGGNT TATGCCTTTT TNAAAGTAGT 120
TTNTTTTAGG AACTGTCAGC ATGTNGTNGT TGAAGTGTGG AGTTGTAAC NTGCGTGGAC 180
TATGGACAGT CAACAATATG TACTTAAAAG TTGCACTATT GCAAAACGGG TGTATTATCC 240
AGGTACTCGT ACACTATTTT TTNGTACTGC TGGTCCTGTA CCAGAAACAT TTNCTTTNAT 300
NGTNACTNGC TTTTNAACT TTGTTTAGCC ACTTAAATC TGCTTATGGC ACAATTNGCC 360
TCAAANTCCC ATTCCCANGT NGGTAATATT GN 392

SEQ ID NO:3127

LENGTH:391

01068

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03695

SEQUENCE DESCRIPTION:

```
GATCTAAGGA TGA CTGGAC AACTCCCTG GACTGAAGA GTCTGAACAC TGGCCTGTNA 60
TTGGTCCATT CCAGGACCTT CATTGCATA AGGTATCAAA CCACATCAGC CTCTGATTGG 120
CCATGGGCCA GACCTGCACT CTGGCCAATN ATTGGTTCAT TCCAGGACAT TCATTGTCAT 180
AAGGNGTCAA ACCACAGCAG TCTGGATTG GCTGTGAGCC AATTCACCTC AGTNTCTAAT 240
TGGCTGTGAG TCAGTCTTTC ATTTACATAG GGTGTAACCA TCAGGAANCC TCTACAGGGT 300
ACTTAAGCCC CAGGATGATT TTGGCTTACC CGGGNGTTTC TTGNGGCCNC TTTGGTNTTG 360
GCCNAGTTNC NCACCTTTGT GGAATTGGT N 391
```

SEQ ID NO:3128

LENGTH:389

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03696

SEQUENCE DESCRIPTION:

```
GATCTCGGCT CACTGCAACC TCCACCTCCC GGGTTCAAGC GATTCTCCTN CCTCAGCCTC 60
CTGAGTATCT GGGATTACAG GCGTGACCA CCATGCCTGG CTAAGTTTTG TGTTTTTTTT 120
AGTAGAGATG GTTTTTACC ATATTGGTCA GGCTGGTCTC GAACTCCTGA CCTGTGATA 180
CACCTGGCCT CAGCCTCCCA AAGGGNNGGT GCCACGCGC CTGGCCCATT TNTCTTTTT 240
TTGACCCATA CTTAATGTTG CAGAACTAT TCTGTGATA ACATTATCTC TCATGTACAG 300
TAATTATATG TAAATTAATT GAAGCAAATN TGGGAAACTT TACAATAGAA ATAAAGNTAG 360
GCAGCCAGCG TNTGTTTCCA NTTNTNAAA 389
```

SEQ ID NO:3129

LENGTH:380

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03697

SEQUENCE DESCRIPTION:

```
GATCTCGGCT CACTGCAACC TCCACCTCCC GGGTTCAAGC ATTTCTCCTG TCTCGGCCTC 60
CCGAGTAGCT GGGATTACAG GCGTGAGCAC CATGCCCAGC CAGAAGTACT ATNATTTCTT 120
ATAACTACAT ATGAATCTAA AATTATCACA AAAGGAAACT TCTTTTAAGA AAAAGAAAAG 180
AATCAGAACA TAAATATACA GCATGGCAAA ACTACATCTA AAACAAGTAT TATAGGTCTC 240
ATGGTGGAAA ANTTGGACCC ACAAGAAAAG TTGTTAATTA TCTCTGATAT TCTGAACCAT 300
TGNTATCTGC AAAATGATTA CTAGGTATGT GCAATGANGG CTATTGATGT TACCCTGTAT 360
ATCTGCACAC TGTGTTCCAN 380
```

SEQ ID NO:3130

LENGTH:352

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03698

SEQUENCE DESCRIPTION:

GATCTGCTAG TGCTGTAATA TTGTAAATAC TGGACTCAGG AACTTTTGTT AGGAAAAAAT 60
 TGAAAGAACT TAAGTCTCGA ATGTAATTGG AATCTTCACC TCAGAGTGGA GTNNNNNCTG 120
 CTATAGCCTA AGCGGCTGTT TACTGCTTTT CATTAGCAGT TGCTCACATG TCTTTGGGTG 180
 GGGGNGNGAN GANGAATTGG CCATCTTAAA AAGCGGGTAA AAAACCTGGG TTAGGGTGTG 240
 TGTTACCTT CAAAATGTTT TATTTAACAA CTGGGTCATG TGCATCTGGT GTAGGAAGTT 300
 TTTTCTACCA TAAGTGACAC CAATAAATGT TTGTTATTTA CACTAGTCTA AA 352

SEQ ID NO:3131

LENGTH:375

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03699

SEQUENCE DESCRIPTION:

GATCGTGGGT TGCCGAGAGG ACCTGAGCGC TGCGGCTCTG CTGAATGGAN CCGGGTCCCT 60
 CAGGCCGTGG ACGCCCTCGG AAGGGGGGTG ACTGTGGCTT GTNTCTGGAC AGGAATGTGT 120
 CATTTCCAC ATCTTCTAGA GGGCTGCCAG CTGGGAAGAC AGTTATNAGG GCAAGCTGTG 180
 CTCTGAGTTT CGGGTTCTGC TCCTACAAAG AACGTGCGGT GCTGCGGGCN AGGGCCCCGG 240
 CACGGACAAG GGCCACTGCA GAGTGTGTTT CTNCTCGTNA GCTGCCCTGG GCANGGAATG 300
 GGCTGGNTNA TGCAGTTGGA TGCACATCTN ATTCTGTCAT GAATGTCCAG TAAAAAATCT 360
 GAAATTGGTT GCAAA 375

SEQ ID NO:3132

LENGTH:369

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03701

SEQUENCE DESCRIPTION:

GATCCAACCC AAGGGCAAGG GCATCCTGGG AAATACCATC AAGTGGAAC TCACCAAGTN 60
 CCTCATNGAC AAGAACGGCT GCGTGGTGAA GCGCTACGGA CCCATGGAGG AGCCCTGGT 120
 GATAGAGAAG NACCTGCCCC ACTATTCTA GCTCCACAAG TGTGTGGNCC CGCCCGAGCC 180
 CCTGCCCACG CCCTTGAGC CTTCACCGG CACTCATNAC GGCCTGCCTG CAAACCTGCT 240
 GGTGGGGCAG ACCCGAAAAAT CCAGCGTGCA CCCC GCCGGA GGAAGGTCCC ATGGCCTGCT 300
 GGGNTTGGCT CGGCGCNCCC ACCCCTGGCT ACCTTGTGGG AATAAACAGA CAAATTAGCC 360
 TGCTGGAAA 369

SEQ ID NO:3133

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03702

SEQUENCE DESCRIPTION:

GATCTTGGGA AAATTGCGGA GTGTACATTT ACAAAGATGC GTTCAAATAG TGCTCTAAGA 60
 GTTTTGTTC GTGGCTCACT TCGGCTAAAA TGCAGAAATG NATGCTGTCA GCGTTGGTAT 120
 TTCACATTCA ATGGAGCTGA ATGTTCAAGG CCTCTTCCCA TTGAAGCTAT AATTTATTTG 180

GACCAAGGAA GCCCTGAAAT GAATTCAACA ATTAATATTC ATCGCACTTC TTCTGTGGAA 240
GGACTTTGTG AAGGAATTGG TGCTGGATTA GTGGATGTTG CTATCTGGGT TGGTACTTGT 300
TCAGATTACC CAAAAGGAGA TGCTTCTACT GGATGGAATT CAGTTTCTCG CATCATTATT 360
TGAAGAN 367

SEQ ID NO:3134

LENGTH:366

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03703

SEQUENCE DESCRIPTION:

GATCAAGAAA TGCATTGACA TTCTAATTGA GAAAGAATAT TTGGAGCGAG TGGATGGTGA 60
AAAGGACACC TACAGTTACT TGGCTTAACC CTTCTGGAAG GGTCTGACTG TGTGACCCGC 120
AGCAAATAGT TCATGTTGGA AAGAATGAAA ACAACTCAAG TTCATAGCAG CCAGCCTGCC 180
GCCATTGGAC CTCCTTTTAA AAAACTGAGA CCAAGACTCC CATCAGCTGG TCTCGGGTTT 240
ACATCGGAAC TGCTCAGGAT TGATACATTT NAAGTCTGTA AATACGGACA CCAACGCCAT 300
TTACCCTAAT TTNANGAACA GCGGGGNCTG TCCNTCCGGT GCCGAGGGGC TTGCATTGCT 360
TACCGN 366

SEQ ID NO:3135

LENGTH:364

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03704

SEQUENCE DESCRIPTION:

GATCCCTGAT TAAGCTGATG ACTAGACCTA CAATTAATTT TCCTGCAGTA TATGAAGTAT 60
TGTACCAGAG TATTAAGAAG TATGTAATAT TTNATTGATA AATCTATCCT TTAAGAAGAA 120
TACGTTTTAG GATGTCATCA TTTGATGTG AATCATGTAA ATGTTGATAA TATGCTGTTT 180
ATTATACATT TAGTGTTCAC AGAGATTAC TTAATTGCCT TTTGCCCCAC GTATATTATG 240
TAGTCTATTT GCAACTGTTC TTAAGAAANT GNCATTAAAG GACTAGTTTA TGTNNGGAAC 300
CATTAGTGGN TGTTATTNGN CTCCCCCCT NTNTTTTGG GGTGTTAGCG CACCTGCTTT 360
GCTN 364

SEQ ID NO:3136

LENGTH:363

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03705

SEQUENCE DESCRIPTION:

GATCCTGACC AGCAAGCCCC CCCCCAGCCC CCCTTCCAAG TGA CTCCGTG NCTTGAGTGT 60
GTCTGCGTGT TTACACCCGT CCCTCTGCTG GCCGCCCCCG TGCAGCGGC ACCCCTGCCC 120
TGCCCTCCAC AGAATTGGGT TCCAAGGGCT GTTCCAGACA ACTGCCAACG TCACTGAGGG 180
CCCTGCCCCA GCGGNCCTGG CCCCAGGCTC TATTAACCTA AAATGTAGCT CCCTAGCGNT 240
AACCTAGGAA CCGGCGTTGN CTGCTTGGGG GGTACGCCC TCATGNCCTT GTTCCCAGGG 300
CCGGGGGCCT TNAAGCGGTT NGAACAATTC NTTGGCTTTT TTTCANANTG TTTAATNGGA 360

SEQ ID NO:3137

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03707

SEQUENCE DESCRIPTION:

GATCTGGTGG TCAGCCCTAG GATAAAAAGC CAGGGCTGGA GAACAAGAAA GGGCCAGGAG 60
ATGGAATTCC TTCAGGCCGG CACCCACACC CTAGGACATG TAAGCCCTCA TGTCCAAGGG 120
AGCCTCATGC AGATAGTAGG AAATCAGGTC TGGAAATTTA AAANTAAAAG GCATGAGACT 180
AAGGCTATCT GCTTCNTTA TGCCCTGACT GGAGAGGGGA GGGTGGAGAG GCANGGCCCA 240
CAGTGGGCAT CCCNGCTNGG TCTTNGGATG NCTGCNGTGN GGTGAATTCC CGGGAACTNG 300
TTTTGGCACA ANGNTNNTT TTGGCACTTT GTTTTTTTTG GTATTTAAAG GTTTTGCTN 359

SEQ ID NO:3138

LENGTH:358

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03708

SEQUENCE DESCRIPTION:

GATCAGGGGA TAGTGAAGTT TACCAACTGG GTGATGTCAG TCAAAAGACA ACATGGCACA 60
GAATATCAGT ATTCGGGCCA GGCCTCAGAG ACGTGGCATA TCAATATGTG AAAAAGGGGT 120
CTCGAATTTA TTTGGAAGGG AAAATAGACT ATGGTGAATA CATGGATAAA AATAATGTGA 180
GGCGACAAGC AACAACAATC ATAGCTGATA ATATTATATT TCTGAGTGAC CAGACGNAAG 240
AGAAGGAGTA GAAAGGATGA TTCTTCTTTG GCCATCATTT GGTACAGTCT CATTTCCAAG 300
TCATGTATAA TCTTTATGGC TTCCAGGGAC ANGGNTTTAA AATACTCTTT TACGTAAA 358

SEQ ID NO:3139

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03709

SEQUENCE DESCRIPTION:

GATCTCAGTC TCTCTGTCTC TCTTTCTCTC CTTTTCCTTT TGGTGTATCA AATATTTNAT 60
TGACAAAGTA AGGGCCTTGA TTAGGACCAA ATTCTCGTGT GTTGCTATGG TCTTTATTTA 120
GGACAACAAT TAACAATGCA GTGGCCCATC CTTGTCACTC TACACATATG ACTATACGGG 180
ACATATGTAA TATATAAATA TATATATAAA NCATCCCCCT CTGTCCCCTT GGCTTCGGAT 240
GGAGGCCTTT CTGTTGAGCT GAAATGCACC TGCAGCTGGG TGCTGCCAGC AGCTTGCAGG 300
CCCCAGCCCT GTTCCANTCA ATGCAGTTGN CAATAANTGG NATGAGTATC GTCAAA 356

SEQ ID NO:3140

LENGTH:354

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03710

SEQUENCE DESCRIPTION:

GATCTTCAGC ATGTGCGGCC TCATGCTTAA GCTGAAGTGG TGTGCTTGGG TCGCTGTCTA 60
CTGCTCCTTC ATCAGCTTTG CCAACTCTCG GAGCTCGGAG GACACGAAGC AAATAATGAG 120
TAGCTTCATG CTGTCCATCT CTGCCGTGGT GATGTCCTAT CTGCAGAATC CTCAGCCCAT 180
GACGCCCCCA TGGTGATACC AGCCTAGAAG GGTACATTT TGGACCCTGT CTATCCACTA 240
GGCCTGGGCT TTGGCTGCTA AACCTGCTGC CTTGAGCTGC CATCCTGGAC TTCCCTGAAT 300
NAGGCCGTCT CGGTGCCCCC AGCTGGGATA GAGGGAACCT GGGCCCTTTT NCTN 354

SEQ ID NO:3141

LENGTH:352

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03711

SEQUENCE DESCRIPTION:

GATCTTGATG AGGGCCAAC TCCCTCTTC CACAAGGGAT TAATCTTAGA ACTATAGCCA 60
ATTTATTATA AGTACTATTT AGCTACTCTG TGCTCCACAC ATCACGGAGT AATATCTTCA 120
AACTATGAGG TTTAGTAACA CTTGACTGCT GAGGTTTATT TCCTCAGCTC TGATGCTTCC 180
TGGGTGAAGA TGTAAGTNAT TAAATTAAC CAAATTTTAA AGCTAACACT TCATTCCATC 240
TAGACCAGGT AGCTCGTCAT TTGTACGTCT GATAGGTGCT TCAACATCTC AGAATTGGCT 300
TTATTTTCA TGCATTGCAT ATTGTACTCN TTTGTAATAT TGGGNATGTA AN 352

SEQ ID NO:3142

LENGTH:349

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03712

SEQUENCE DESCRIPTION:

GATCTGACCA CTGTTCTCCA GCAGGCCTCT GCTGCAGCTT TTNCTCTCAG TGTTCGGCC 60
CTCTCCTCTC TTGAAAGTTC TCTGCTTACT TTGGTTTTC CTCTGCTTGT AAAACATTGA 120
GTCCCTCCC TGCCTTGGTT AATTGACTCA CACCAGCTGT GCGATGCCCC CTTTTACAAT 180
TAAAGGAAAA CTGTTTGTG CAGTGTACAC TTGTCAGCAA CACTGTGTCC CTTGCCCCCA 240
CCGTTCTTCT CTGCTGCATT TGGACATGAG CCAAATTTGA ACCCAATCAA ATATAACGTG 300
TCTGACACTG ATTTGTNTT TACTCAANTA AANGTATAGA CTACAGAAA 349

SEQ ID NO:3143

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03713

SEQUENCE DESCRIPTION:

GATCTGTTCC AGTGCGAGGT GAACACCCTA CGACGTTATA AACGACACTA ACAAGTTGCA 60
GACCAGACCA GGCTTCAATA AGGCCAGTT AGCAGAACT GTGAGTCGAC ACTTCAGGAA 120
CATACCTGTG AATGAAAAAG AGACCCTTGC CTACTTCATC TACATGGTGA AGAGTAACAA 180
GAGTAGACTG GACCAGAAAT CGGAGGGNGG CAAGCAGCTT NAGTGAGGAT GAAGCACATC 240

TTAAAGGAAT GAAGTGTAAT TGCTTGATGC ACAGGTNGAT ATCTACTACA TTAAAGCCCA 300
TAAAGACTGT TTAAATATTA TTGTAAATAA AAAAGTTTGT ATGATTGN 348

SEQ ID NO:3144

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03714

SEQUENCE DESCRIPTION:

GATCCAGATG CAGAGGCCAG GATGTGGGCC CAGCCCTGTG CCAGGAGGCT NGCTGGAATA 60
AAGGGATGGG CAGGCTGGCA TGGGGGCAGC CGCTGCCCCCT GCCTNNNTGT TGCTGTGTAT 120
TCCTGCCGGC CAGGGGCCAC TGCCAGGACC ACGCCTCCCT TTTNATATCC CGATTCTTAA 180
GTTCTGCTAT TGTGGTATTC TGGTGGAGAA AAAAGAACCG CGTGGCTGTT TTTNAACTGC 240
CTGGAACCTA AGACCCTGAA TTCTTTTCCC CCCCAAGGGG AAAATCTATA TGGAAANCA 300
TTATTTTAAA ATACAGGATG AAGTGAATTA AAAGATTTTA AATGCAAA 348

SEQ ID NO:3145

LENGTH:379

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03715

SEQUENCE DESCRIPTION:

GATCACACCT GAGCTTATGC TAAAAGGTGG GATGACTCAG AGCTGGGGCT GGTCACCAGA 60
CAGACTGACC ATGTGATTAG AGGTTTGAGG CTTTGAGTCA GCCTGACCCTA TGGGGCGGGG 120
GACTGGAGGC TGAGTTTAAT CATCTGGCCA GTGCTTTAAT CAGTACATCA TGAAACCCTA 180
ATAAAAACTC TGGACACTAA AGCTCAGCAT AGCTTCCTGG GTGGTGAAGC TGTGGCTATG 240
CCGGCAGGGC AGTGTGCCCT AATTCACGA AGAGGGGGCA TGGGAGCACT GTGCTCAAGA 300
CCCTTCCAGA CCTTTCCTG TGTCTTCCTT GGCTTGTTGA GCTGATTGT ATCCTTTATA 360
ATAAACCTAA TCATAAGGN 379

SEQ ID NO:3146

LENGTH:371

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03716

SEQUENCE DESCRIPTION:

GATCTGACCT GTGACAAGTC TGTACTATCC ACTATGTAAA TGGCTCACAA GTCAATTGCA 60
AACAACTGA ATGTACAAAT CTTAGTGCTG GTGCTGAAAT CTCTCAGAA TAGTNATCAT 120
GATTAAAAAG TTTGTTTTAA AATTTGCAAG CATCAAGTGT CAATCAAAAC TGAAGATGAA 180
ACACTAATGA ATGTTGAATT CTCATGCTTT TAGGTGTACT TCCTTTTtag AATTTTCAGT 240
TTTCTGCTAT TTTTACCGTA ACTATTTCGT TAAAANTTGG TTTCATTAN GTTTCCTACA 300
TGCTAACTTC GTTGTGCGN TTGANTAAAN TTGCCGGTAT ATATNTGGTG GCCTTGTTTG 360
TGACACTTTG N 371

SEQ ID NO:3147

LENGTH:346

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03717

SEQUENCE DESCRIPTION:

GATCACAGGC AAACCCATCA AGCTGACTCA GGTGGAACAC GAAGCTGGCA NNTAAGTGGA 60
ACATGGATGG GGC GGGAACC ACCCCAGCC CAGGGCTGCA GCCTNNCCCA CCTNACCTTC 120
CCGCTGGACT ATNACCTTAA CCAGCCTTTN ATCTTCGTAC TGAGGGACAC AGACACAGGG 180
GCCCTTCTTT TCATTGGCAA GATTCTGGAC CCCAGGGGCC CCTAATATCC CAGTTTAATA 240
TTCCAATACC CTAGAAGAAA ACCCGAGGGA CAGCAGATTC CACAGGACAC GAAGGCTTGC 300
CCCTGTAAGG TTTCAATGCA TACANTAAAA GAGCTTTATC CCTAAA 346

SEQ ID NO:3148

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03718

SEQUENCE DESCRIPTION:

GATCTNCTGC CGAGTGAATG GGGAAGTGNT CCAGAGCGGC AACACCAAAT AGATGGTATT 60
CAAGACAGAG GACCTGATAG CCTGGGTCTC CCAGTTNTN ACCTTNACC CAGGGGATGT 120
NATCCTAACT GGGACCCCC CAGGTGTCGG TGTATTCAGG AAACCTCCTG TTTTNTCAA 180
GAAGGGGGAT GAAGTCCAGT GTGAGATTGA NGAAGTAGGT GTNATCATCA ACAAGGTGGT 240
GTGATGGCTC CTGCACAGGC CCTGCACATA GGTGAGGGC ATCTGCTCCC ACTNAGCCTA 300
GCCCAGGGAA AGGCCCANTG ACAGGNTGTG GACAGGTTGC CAGN 344

SEQ ID NO:3149

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03719

SEQUENCE DESCRIPTION:

GATCTTTGAA GTCTATTTAA ATATTCATTC CATTACATCT AGACTCACCN AGAACTACAT 60
GTTATGATGT TAAGTTGAAG TTGAAACATG ATGTTTGTCA TTAAATTTAA GATATGCAAA 120
TTTATGTAGA GAAAATAAAT GTTATATACC CTATAATCTT TCACCTAATT AGTATTTAAT 180
TATATGGATT TGNNTTATAT TATAAAAGAT GTTTTGATT TGTCTNTNGA TATTGNCAAA 240
ATTGTTTGGA TATNCTTATG TTCTCAAGTC TGTATCTGCC TCCCCTGCCT TATNTCTNAT 300
GTTTTGCCAC AGTTAACCCA TTGTGCTTCT TTGTAATCAA N 341

SEQ ID NO:3150

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03720

SEQUENCE DESCRIPTION:

GATCTNATCA GTCCTAAGCG GGTGATGGGG CAACACGGTT AGCGGGGAGA GCACGGGGTA 60

GCCGGAGAAG GGCCTCTGGA GCAGGTCTGG AGGGGCCATG GGGCAGTCCT GGGTGTGGGG 120
 ACACAGTCGG GTTGACCCAG GGCTGTCTCC CTCCANAGCC TCCCTCCGGA CAATAAGTCC 180
 CCCCTCTTGT NTCCACCCT NAGATTGGGC ATGGGGTGCG GTGTGGGGGG CATGTNCTGC 240
 CTGTTGTNAT GGGTTTTTTT TCGGGGGGGG NTTGCTTTT TNTGGGGTCT TTGAGCTCCA 300
 AAAAATAAAC ACTTCCTTTN AGGGAGAGCA CACCTTAAA 339

SEQ ID NO:3151
 LENGTH:337
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03721

SEQUENCE DESCRIPTION:

GATCCTCTCC CTGGGATAAG CACTCCCAGC CCCGTTTATC AGAAACACAG GCAAGGAAAT 60
 TGGAACTGCC ACCCAGCCCA GCATGATGGC TCAATTGGTT GGTTCGTTG TNAGTTGTCT 120
 CTTNGTTTTG TTAAGNNTT TAATAAGTA CGTTTTGCAT AATTGCCTTT AAATGGTTTG 180
 TAATATTTGT AACGGTTTTA GCAGCCTATA ACTTTTCAGC TGGTGCTTTT ACTTAGGGNA 240
 AAAACAATT TGTAATACA GNACATTTGT TAAAGGCAT AACNTAGAA CATAGCTTCC 300
 TGTTTTGTGG ATTTGGTTTC CTNTATATTC AAAGTAN 337

SEQ ID NO:3152
 LENGTH:336
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03722

SEQUENCE DESCRIPTION:

GATCAGAGGC AGACAATGAC GAGTGAAGAT GGTGTAAAG CCCTCTTCAT TCCTGGAGGA 60
 GCCTGCATCT AATCTNTAG GCCCTCTTTC TCTGTGGGTC TCATGAACAG CAGTGGGGAC 120
 CATTGAGNAC TTGAATGGCC TGTTTGTNTA TGGGCTTGCA AAGGACAAGC AGAGTTCACA 180
 GAGCTCAGGA TAGAAACATC AGAGCCTCCT CCACGGGCTT CAGTGNAACT CCGATGAACT 240
 GTACCTGAGG GAATTTTTTT NTAATCAAC CCCTTGTGTG GATGAATACA GGACCACAAA 300
 ANTTNGTNTA CGTTTGAAAA AAAANAANNT NTNNNN 336

SEQ ID NO:3153
 LENGTH:334
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03723

SEQUENCE DESCRIPTION:

GATCTGCATT CCGACTGCCT ATNAACGGGT GTGGGGGCCG GGGGCTGGAN TTGCTGAAGT 60
 NTTCAACTTG CACTCGGAGC TCCTTTNATA CCTCAAAGCT GGCTGTNAGG TGGCAGCTCA 120
 CACCCAGACT CACTGGCCAC ACCTCAGCAG GGGGGGAGTC GAGTGTGAGT NTCTTTCTGT 180
 GAAGGCTTTT TTTTCCCTT GGCCTGGGAA TTTTCCCAT TTAAATGAAG GGGTTTTAAA 240
 TTGTTTCATT TTGTGTGCTG TGCTTCAAAG CCTTAACTGT CAAATCTTGC ATTATCTNGT 300
 TTGTACAGAA ATATACTGGC CTAGCAGNGG CAAA 334

SEQ ID NO:3154

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03724

SEQUENCE DESCRIPTION:

GATCAAAATT TGTGTACTTG CAGGGCTTTC TTTCTTTTNN TTCAAATTTA CAAGGGTTCA 60
TTTTGGAAAC TACATTTTAA ACTTTGGAAT CAAATTGTTT CTTATTGGG AGGATAATGT 120
ATATACATTG GTATTATGTT AAATAATAAA ATTGTNCTAA TTTGGTGCCA TTCCTGAAT 180
CACAACGTGA TTTTGTNATC TCANGCTATT TTCATATGTN ATGTGTCAAT GTATCATCTC 240
TCAGAAAGGT TTTACANTCC AAACATTATA TGTNCTCTGT GTAACGAAT TTNACTTATC 300
TNTNTAAAC CAGNAACATT AATTGAGAAA 330

SEQ ID NO:3155

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03725

SEQUENCE DESCRIPTION:

GATCTTCGCA AGCCAGCTTC TTCTGCATCT NAGGGGCTGC TGGCGCCCAN AGGAGGCAGA 60
CAGATGTCTN NTAGCTGAGT TTCTAACC GC ATGATGAGAC TCAGACCTTC CGCTGCACTA 120
GAAAATCTGC AACAGTGTCC CTGAGTCACT TCTCCTTAGT GGGCAGACTC GTGTTAGATT 180
TGTGGAACCC AGCTCTCTGA TTTACTCCTT TTGGAACACC CATGGAATTT CATGTATAAG 240
GCTTTCATTT GTATTTNAAG GTTTTCTGT TTGTTTGTAG TATATACATG GTGCTCAATA 300
GCAACATCTT AGCAGATGAA GCAGTTTATN 330

SEQ ID NO:3156

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03726

SEQUENCE DESCRIPTION:

GATCTACTGC AAATCCTGCT ACGGAAAGAA GTATGGGCCA AAAGGCTACG GTTATNGCCA 60
GGGCGCTGNC ACGCTTAACA TGGACCGTGG CGAGAGGCTG GGCATCAAAC CAGAGAGTGT 120
TCAGCCTNNA CAGGCCTACA ACAAATCCAA ACACTTCTAA ATTNCTCAG AAATATGGAG 180
GTGCNGNGAA GTGTTCCAGG NGTGGGGATT CTGTATATNC TGCCGAGANG ATAATTGGAG 240
CTGGAAAGCC CTGGCACAAA ANCTGTTTCC GATGTGCAA GTGTGGGAAG AGTCTTGANT 300
CAACANCTCT GACTGNAAAN AGAAGGTGN 329

SEQ ID NO:3157

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03727

SEQUENCE DESCRIPTION:

01077

GATCGGGGCGC ACGGNCCGCT TTGGCAAGAG GGGCCTGGCA GTGAACATNN TGGACAGCAA 60
GCACAGCATG ANCATCCTGA ACAGAAATCCA GGAGCATTTT AATAAGAAGA TAGAAAGATT 120
GGACACAGAT GATTTGGACG AGATTGAGAA ANTAGCCAAC TGAGAAGCTC CACCAGCCAC 180
TGATGCCAGC CCTGGCACTG CCCCTGCACA GGAGACAAGT GCGTTCAGGG CACAGGCCCC 240
GACATCACCC CAAGGNCAAC GGCACAAGTA GAGAGANACT ACCTACCTCA NTTCANATTA 300
TGTTTGGCCT TGACAAAATT GTATGCAAN 329

SEQ ID NO:3158

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03728

SEQUENCE DESCRIPTION:

GATCAAAATTT ACTNGAACAA TTGTTAATTT ATCCATTGTG CTTAGCTTTG TGACACAGCC 60
AAAAGTTACC TATTTAATCT TTTCAATAAA AATTGTTNTT TGAAATCCAG AAATNATTTA 120
AAAAGAGGTC AGGTTTTTAA CTATTTATTG AAGTATGTGG ATGTACAGTA TTTCAATAGA 180
TATGAATATG AATAAATGGT ATGCCTTAAG ATTCTTTGAA TATGTATTTA CTTTAAAGAC 240
TGGAAAAAGC TCTTCCTGTC TTTTAGTAAA NCATCCATAT TTCATAACCT TATGTAAAAAT 300
ATGTNGTNCC TGTTTCCAAT AGGTGAN 327

SEQ ID NO:3159

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03729

SEQUENCE DESCRIPTION:

GATCTGAATT TGGACCATTT CACTAAAGAG AACATGAGTT TGCTCAGCCC TTTCCTCACA 60
AGAGGGAGGG CCCCGGTTCC CCAGACTTCT CCACGCGCTG GCTCCATAAA GGCCAGCTTT 120
GGCCAGGCTG CCACAGGGGC CTNAGGAGCT CACTCTGGGC CTACCTGGTT TCAGTTAGAG 180
GGTCCTCCTG TTATTTTTCC ATTTAAAAAG TATGTCCTCA GAAAACTGTA NTGGAAGGAT 240
GGGTGGCAGG AACTTGTATA GTTCAGCTTC CAACACTTTG GAACAGATTA AAAAGGGAAT 300
CTTTTAAATA AAAACGTATA NAAA 324

SEQ ID NO:3160

LENGTH:322

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03730

SEQUENCE DESCRIPTION:

GATCTTGTTT TTAATTAAC TATTACTCTA TTAATATAAC CTTGGAATTC TATTCTAATN 60
ATGTTGTTCT GGCTGCTTGT AGTATCAGTT CGCCCCTCTT GTTAGGGAGA TATGTAACAA 120
TCTGTCATTT AATTGAGCAG TCTTTTTTAC ATAACAGTAA TAGCAAAAAT CCTACCTACT 180
CAGAATCATC TNCTTAGGTT GTCTCCTAAA TCTGAACAAT ACAGTTGTTT TATAAANTNN 240
CATTTNGTCT CTTGAGATTN AATCAATTAG AACTCTTTAG GGAGAAAATA AATANTAGAN 300
GAAANTATAT GCCTCANATT GN 322

SEQ ID NO:3161

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03731

SEQUENCE DESCRIPTION:

GATCTGACTT TTTTCCTTCT CAAAAGAATC ATACTTGGGA TTACAGGTAC ATTTNATGTT 60
ATATNATGGA TAAGTGAAAA NTTTTTAAAG GAGATTTTAT ACCTTTTCAC ATTAAAAAAG 120
GTATTTATAT TATNACTTTG TAGTGATTGT CTTAAGAAAA AATATAGCCC AAATGTATAG 180
TAAAAATCAGC AGCTCAAGAA GAATTTCTGC TTCTNTTGT AGTTGATGCT TTGTTTTTNC 240
CTGCAGTCAG AAATTCCTTG TATTTGTCAA ATGTATAATC AGCTTGATT GTTTTAAAT 300
TAAAAANAAAA TTTGANTAAA 320

SEQ ID NO:3162

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03732

SEQUENCE DESCRIPTION:

GATCTGAAAA NAAACCTTAA TACGCTCATA TGGTTGGAGT GTTAAGTGAA CCTNTGATTT 60
TTNAGGGTT TTTNTACGTG TAGGCGTGAA TAGGGGGCAC CCCTTCAAAA CTGTACAAAG 120
AAGACGACTG TTTTCCATTT CCATTTAAAC ATTTTtagcc ACTTCATTTT TATTTATTGA 180
ACAGGTCAAA TTTGTNTTGT TATTTGTGAG TACAGTACAT TAAAAAACA TCCTTATCGG 240
TTATTTTTTT TTCAGTCGGA GTTTGACGTA TAAATNGTTT ATGCTTTTGG TGTAATCTCT 300
TAATAAACTG GTTCTTCAAA 320

SEQ ID NO:3163

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03733

SEQUENCE DESCRIPTION:

GATCAGCTAG CTTGATTCTT GTGTACTTTT TTNAACTGT GGGTTTTCTT AGTAAATTTA 60
ATTTACAGAA ATNAATGGTA GCATTTAGTA ATCTACAAAG GAAATATCAA AGTNTTTTNN 120
AAGCCTGTNA TATTCAGTGT GTGCCACAGG ATTGAAATAA ATGACAATGT AATTATGAAA 180

SEQ ID NO:3164

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03734

SEQUENCE DESCRIPTION:

GATCAGAATT CCGATTTGAC GGGCAACCAA TCAATGAAAC AGACACACCT GCACAGTTGG 60
AAATGGAGGA TGAAGATACA ATTGATGTGT TCCAACAGCA GACGGGAGGT GTCTACTGAA 120

AAGGGAACCT GCTTCTTTAC TCCAGAACTC TGTTCTTTAA AGACCAAGAT TACATTCTCA 180
ATTAGAAAAC TGCAATTTGG TTCCACCACA TCCTGACTAC TACCGTATAG TTTTCTCTAT 240
TCTTTCATTT CCCCCTTCCC CATTCCTTTA TTGTACATAA AGTAACTGGT ATATGTGCAC 300
AAA 303

SEQ ID NO:3165

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03736

SEQUENCE DESCRIPTION:

GATCTAGAGC CAGGCTGGTC AAGACAAGAA TTGGCTGGAA TAGGCTGCTC TTCCCCCATT 60
CCATCATGTG CTGTCCCCAC CCCTTTGGCC ACCTGGGCTG ACTGTGTCTT AATACCTCAA 120
GTGCAAGTAT ATAGGAGTAA GAAATNAACA ATGCCTGCCT CCTTATACTC ATGCCTACAT 180
TGTATGACAT CTAGTATGAA AGGGAACAT TAAAGGAAAA CCCTTGTTTT GCTCTAAAC 240
CTGAGGACGG TAAACACTGA GAGTAACCTG GTGCTTGGTT TGAAGTAAAA CACAAATACT 300
TCCCTTTTAA A 311

SEQ ID NO:3166

LENGTH:309

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03737

SEQUENCE DESCRIPTION:

GATCAAGGGC AATGCCAATG AACATCGGCA TGGATTATAA TTATGCCCTC CTGGAACCTCA 60
AAAAGCCCCA CAAGAGAAAA TTTATGAAGA TTGGGGTGAG CCCTCCTGCT AAGCAGCTGC 120
CAGGGGGCAG AATTCACTTC TCTGGTTATN ACAATNNCCN NCCAGGCAAT TTGGTGTATC 180
GCTTCTGTGA CGTCAAAGAC GAGACCTATG ACTTGCTCTA CCAGCAATGC GATGCCCAGC 240
CAGGGGCCAG CGGGTCTGGG GTCTATGTGA GGTGTGGAA GAGACAGCAG CAGAAGTGGG 300
AGCGAAAAAN 309

SEQ ID NO:3167

LENGTH:309

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03738

SEQUENCE DESCRIPTION:

GATCTTGATA TGTTTTAACA TTATCATGGC AGGGAAATAT ATAAAGAAGA AAAATATTTT 60
NACATTAAAC CTTTCTAA AATTGTAAAT AGAAAAATAA TTTGGTTTTT NATCAAGANC 120
AACACTTATC GTTATGTATT GTGTAGTTA TATTGCCAGT CTGTTGCGAC TGA CTCAAAA 180
AGTTAAATGT TGCCACTGCT GANGATGATT ATGNGCATCG CANACTTTGT TTCTGNCCCC 240
TTTGGCAGT TTNATATAC TCCNTTAAGA TGTGAATGT TACAGGTTAN TAAAGTTAAT 300
ACCTTTAAA 309

SEQ ID NO:3168

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03739

SEQUENCE DESCRIPTION:

GATCCTTTAC AGAAAAAGTT TTCTGACCTC AATTCTAAAG TAATTGTAGT AGGGAGCTGG 60
AGGACTTTCT TTCCCTTTAT GGTAATTTT TGAGCTACAA AAGAGCCTTG CAGAAATGGG 120
TGAAGGGATT AANCTTTTAA AAATAAATGC TATATATTAG GAAAATAAAA AATATTTTAG 180
AGCCAAGTTA ACAAGTACTT CAGCAAAACA TGCTAGTTT ATGCAGGGGA TTCTGTATTC 240
CAAATGGATA CANTCCGACA TATATAAAG AATCAGATTC TTAATATTG ACTCTTATT 300
NGCAAN 306

SEQ ID NO:3169

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03740

SEQUENCE DESCRIPTION:

GATCATACCC AGAATTCAAT GTTTGATATT TTAAGAAATGT ATGTTCTAGT GTTTTNAGA 60
GTGAGTCTAC CATCTGTATA AAAACACCTT GGGGGCAGGC AGGGGCATTT AAAAATGTAG 120
GACCTATCGT CCAGACTCAC AGAGTGGGGC TCCAGAATCT CCATTTTAA CAACTCTCT 180
TAAGTAATTC TGATGTGTAC CAAAATCAGT GCCATTGGTG TGTGTGTACG TAACTATATA 240
CATATGTGTG TGTGTGTATA TATATAATGT GTCATAACCG TAAACAATAA ACAATATCAA 300
GNTAAA 306

SEQ ID NO:3170

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03741

SEQUENCE DESCRIPTION:

GATCTGTCAT GTTTAAACCC CCTACTTCTA AGGGAACCTC TCTAATCTCT TATCCTCATC 60
CCCAAATAGT GTTTCTTCC TCTGGGTCT TATAATNTTG GTATCAATCT CACAGCATTT 120
AGTGCTTCCT GCCTGGTGTG ACAGTTACCT GTGTGCATGT GCAATTTCTA ATTTCCACG 180
CTAGACTGTG AGCTTCCTAA GGCAAGAATC ATGCCTTGTT GGTTTCTGTA TTCCTCATGG 240
TGCCAAACAC AGTGCCTTCT ACATTGCAGG CGCTGAATAA ACATTTTAA AGCAAAAAA 300
TTNAAA 306

SEQ ID NO:3171

LENGTH:305

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03742

SEQUENCE DESCRIPTION:

GATCTCCAGT GGTCAAAAGA CATTTACCCT TAATATCAGA CAACATTTAT ATTTAGTGA 60

AGAAACAAGT TCTCGGGTGG GGAATCTATG TTCTACTCAG ATTTATATGT TTGGAGGAAA 120
AAAGCCTTTT TTTGTAAAAT ATTTAAATTT ATATANGAAA ATGTTAGAAA AAAATATGGG 180
GGAGTGTATT ATAAANCCTG CTTTATTTCG CATGGGGCCN GGGGGAGGCC NGGCCTAATA 240
CTCCTAAAGT ANGTGTTNGG GNCCNTNTTT TCTTCCAATC CACCTGGTGC TGTTCNTGT 300
AANGN 305

SEQ ID NO:3172

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03743

SEQUENCE DESCRIPTION:

GATCTCCGGG AGGGACAGAT GGCCAATNTC TCCCCTTCCA AAGCAGGCCG TGCTCCCCGG 60
GCAGCCTCCC GCCGAGGGGC CCAGCCCCCA ACCCACAGGC AGGGAGGGGC ATCCCTCCCT 120
GCGGACCTCA GGGAGCGAAC GTGGATGAAA ACCACAGGGA TTCCGGACGC CAGACCCCAT 180
TTNATACTTC ACTTTCTCT ACAGTGTGT TTTGTGTG TTGGTTTNA TTTTNTATAC 240
TTTGGCCATA CCACAGAGCT AGATTGCCCA GGTCTGGGCT GAATAAAACA AGGNTTTTCT 300
AAA 303

SEQ ID NO:3173

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03744

SEQUENCE DESCRIPTION:

GATCACTTTT GAGCTCTGAA GCTTTGAATC ATTCAGTGGT GGAGATGGCC TTCTGGTAAC 60
TGAATATTAC CTTCTGTAGG AAAAGGTGGA AAATAAGCAT CTAGAAGGTT GTTGTGAATG 120
ACTCTGTGCT GGCAAAAATG CTTGAAACCT CTATATTTCT TTCGTTTATA AGAGGTAAAG 180
GTCAAATTTT TCAACAAAAG TCTTTTAATA ACAAAGCAT GCAGTTCTCT GTGAAATCTC 240
AAATATTGTT GTAATAGTCT GTTCAATCT TAAAANGAAT CAGTAAAGC AAACAAGGGG 300
TTTAAA 306

SEQ ID NO:3174

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03745

SEQUENCE DESCRIPTION:

GATCAGCAAA CACGATAGAG GAGACCAGTC AGTACTTCTT GGAGGGGGCN GGAGGAGAGA 60
GGAAAAGGGA GGGCGAGAAT NACCACACAA CACAGCCNTT NGACCATGAG CAGAAGCGTC 120
CGTGGGAACCT CCACTGGGGT NGATGGGCTG CCTGCACAGC CCCTGGAGAG GGGGCCAGGC 180
ACACCCTCAG AGGAGCTGCA ACCCGTGGCC TGGCCTGCTA CATGCCCTGC TTCCACGTGG 240
NTGCCACGGT GACACANCCA CATTNACCA TCCCNCCGG GTCTGGGGA CGNAGNCACG 300
N 301

SEQ ID NO:3175

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03746

SEQUENCE DESCRIPTION:

GATCAAAGTT GTCATGAATA CTGACTTGGG CGTGGGACCC ATCCGAGATG TGCTGCACCA 60
CATCTACAGT GCGCTGTATG TGGAGCTGGT GGTGAAGAAT CCCCTGTGCC CGCTGGGCCA 120
AACTGTGCAA AGTGAGCTCT TTCGCTCCCG ACTGGACTCC TATGTTGCTT TTCTGCCCNN 180
NTTCTCCGCC CGGGCTGGCT GAAGCAACCT ACCTCAAGTN TCAGGAGAAT TCATGTCTNC 240
CTGGGGCCCT TCCGAACCTT GTGCCAACTA AGGGCCCCCA NTGTAAGCCC CCGTACCTN 299

SEQ ID NO:3176

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03747

SEQUENCE DESCRIPTION:

GATCTGAATT ACTACAGAAA AATAATTATG TTGCTTGCTT AATNATTCCC AGGAAACTTC 60
GTTGTAGGCA TATATTTTAT AAGAGTATTA TACAGTGTTA ACTATGCAAG TAAGTTCTAA 120
AATNACACAA TNATCTGTGT AATGTTTTAG TCCAATNACT GTGATTTATT CAACTCTGTT 180
CTAAAGTTAT CTGGAATTGT CATGCTGCCT CAATTTACAG AAATCTATAA TAGATTTCTA 240
TAGAAATGTA TAAAGACGTA GCAGTCATTT TGTGTTTCTT AAATAGATAA CATATAAA 298

SEQ ID NO:3177

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03748

SEQUENCE DESCRIPTION:

GATCAGAGTA TGGGTTCTCC ATGTAGCAAT ACTTCAGTGA GATTAAGTAT AAACAGTTTT 60
TGGCAAAAAA CAACACAGTC TACTCTTTCT GCTTACAAAG ACAAAGCCTT ACAAACCTAC 120
TATGAAGGTA AAGGGAGGAC AGCTTGCTTC TTTGCCCAGA CATTTACAAA GTTGTTTTTA 180
AANCACACTC ATAAGTAAGT TTGGCAAGTT GTTTAAAAAA TGTCTCTTTG TTTGTACAG 240
TTCTGTTAGA TGTGTNATA TTTTAANAGT TTAATTTANA ANNTTTNATT TNGTCCN 297

SEQ ID NO:3178

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03749

SEQUENCE DESCRIPTION:

GATCTNATTA CCTTCACGGA AGGAAGCGGA CGCTCACCAC GCTATGCCCT CTGGTTCTNT 60
GTGGGGGAGT CATGGCCCCA NNACCAGCCG TGGACCAAGA GGCTCGTNAT GGTCAAGGTT 120
GTGCCCACGT GCCTCAGGGC CTTGGTAGAA ATNGCCCGGG TAGGGGGTGC CTCCTCCCTN 180

GAGAATACTG TNGACCTGCA CATTCCAAC AGNCACCCAC TCTCNCTTNA CCTCCGACCA 240
GTACAAGNCC TACCTGCAGG ACTTGGTGGA GGGNATGGAT TTCCAGGGNC CTGGGTN 297

SEQ ID NO:3179

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03750

SEQUENCE DESCRIPTION:

GATCATCACA TTTCGTGAAT TGAGGCCATG TTCAGGTGCT AAGGAAGTAT GCCTTTNACA 60
CAGAAGATTG AGAAAATTTT CTAGATATAA ATACAGATAA ATCAGACGTT ACAGTGGTGA 120
CGTAGTAACC ATCATGGCAA TGGAAAGNAG TCCAATTCAT AGCCTAAAC TTCAAATGTA 180
TTCTTAGGAG TCAGATTTTA CTGAATATTT TACCCACAAT AGCTGCCTAT TTTGTTATAA 240
TAAATATAT ATAANTNTAT NTCTNNNCCT TCCTTTAANC TGTAANA NNNAN 295

SEQ ID NO:3180

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03751

SEQUENCE DESCRIPTION:

GATCCCAGCA CTACTTTTAA TTAAGGAGAA AATGGGGGGG ATAGAAAATT CTACTTTGAA 60
TTATTTAGTT TTTTAAAG AGTGGGTTGT GTTGTNCTT CTCCACCTT TCAGCATTTA 120
TAGAACATGC TGCCACAT ACAAGTCAA GACCACTTAC TTTATGTGA CACTAGTAGT 180
TTGGGGTTAA TGTTTGTGT AAGANCAGCT GCATATGAGT AAAGTTACCC CAACCACAGT 240
GAGGAGGAAG ATGTTACAT ACTGGAAGT TCCTGCCAAA TAAATTTTGC CCCTN 295

SEQ ID NO:3181

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03752

SEQUENCE DESCRIPTION:

GATCAGTTAA TGCCTAAGAG TGAAAGTAGT TCTATTGACA TTCCTCAAGA TATTTAATAT 60
CAACTGCATT ATGTATTATG TCTGCTTTAA TCATTTAAAA ACGGCAAAGA ATTATATAGA 120
CTATGAGGTA CCTTGCTGTG TAGGAGGATG AANGGGGAGT TGATAGTCTC ATAAAACTAA 180
TTTGGCTTCA NGTTTCATGA ATCTGTAAGT AGAATTTNAT TTTCACCCCA ATAATGTTCT 240
ATATAGCCTT TGCTAAAGAG CAACTNATAN NTTANCCCTA TTCTNTCTGT GAAA 294

SEQ ID NO:3182

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03753

SEQUENCE DESCRIPTION:

GATCCGTGCT GGAAACTCGC AGGGGGACTT TTACATTAGG CAAATCAACA ACGTCAGCGC 60
 CATGCTGGTC CTCGCCCCGC CGGTGACGTG CCCCCGGGAG TACGTGCTGG ACCTGGAGAT 120
 GGTCAACCATG AATTCCCTCA TNAGTACCG GGCCAGCTCT GTACTGAGGC TCACCGTCTT 180
 TGTAGGGGCC TACACCTTCT GAGGAGCAGG AGGGAGCCAC CCTCCNTGCA GCTACCCCTAG 240
 CTGAGGAGCC TGTGTGAGG GNCAGAATGA GAANGGCAAT AAAGGGNGAA AGN 293

SEQ ID NO:3183
 LENGTH:293
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03754

SEQUENCE DESCRIPTION:

GATCTGTGGA CTTTNATTTT TTTAAGAGAC TTACTCAATT TNATGACTGT ACTACCTGAA 60
 ACAAAGTGAG AAAGGACAGG TGTATTTTTC TAAGTNATCA AGATAAATCC TTAANAATTC 120
 AGTCTAAATN AGCAACCAGG AAGGAAAAAT ATATTAATAA CAACAAAAAA GTGGCACATG 180
 TCCAGGCAGT GTGAGGATTT GCTGTATATA AGTTGCCTGC TTTGTATTNT TNAATCTCT 240
 GCATCACTCA TTGGAAGTGC TTCTNAAGAG AGCTGCTCTG TGTTCAGTTG AAA 293

SEQ ID NO:3184
 LENGTH:395
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03755

SEQUENCE DESCRIPTION:

GATCAAGATG ACCAAGATGT ATAAAGGGTT CCAAGCCTTA GGGGATGCCG CTGACATCCG 60
 GTTCGTNTAC ACCCCCGCCA TGGAGAGTGT CTGCGGATAC TTCCACAGGT CCCACANNCC 120
 GCAGCGAGGA GTTTNTCATT GCTGGAAAAC TGCAGGATGG ACTCTTGAC ATCACTACCT 180
 GCAGTTTTNT GGCTCCCTGG AACAGCCTGA GCTTAGCTCA GCGCCGGGGC TTCACCAAGA 240
 CCTACACTGT TGGCTGTGAG GAATGCACAG TGTTTCCCTG TTTATCCATT CCCTGCAAAC 300
 TGCAGAGTGG CACTCATTGC TTGTGGACGG ACCAGCTCCT CCAAGGCTCT GAAAAGGGNT 360
 TCCAGTCCCG TCAACTTGCC TGCCTGCCTN GGGGN 395

SEQ ID NO:3185
 LENGTH:290
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03756

SEQUENCE DESCRIPTION:

GATCAGCACT TNANTCGGAA AGTTGGAACC TCTGACAAGA CCAAGTACTA CCTTCAAGGT 60
 AATCCGTGGC TTCCCACAAA GTTCCACATT TAACCTCCTC CAAGGAAGGG GATTAAAATT 120
 TNAACCTAAC TCCCTTCAGT TGAAATCTCG GACCACTNNN NAAAACAAAA ACCATGGTCT 180
 AATTNTTNC TTTGTTATGA ATTTNTTGAC AGTGGATTGA GCGATACGTG TCAGANCTAN 240
 GCATTTCACT GTAGGCAAAT TGTGTCTTAG TTATCANGTA AATGTACAAA 290

SEQ ID NO:3186

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03757

SEQUENCE DESCRIPTION:

GATCCAGATG ACTGAATTC AGATAGCATT TTTATGATTC CCAACTCATT GAAGGTCTTA 60
TTTATATAAT TTTTCCAAG CCAAGGAGAC CATTGGCCAT CCAGGAAATT TGGTACAGCT 120
GAAATATAGG CAGGATGTTC AACATCAGTT TACTTGCAGC TGGAAGCATT TGTTTTTGAA 180
GTTGTACATA GTAATAATAT GTCATTGTAC ATGTTGAAAG GTTCTATGG TACTAAAAGT 240
TTGTTTATT TTATCAAACA TTAAGCTTTT TTAAGAAAAT AATTGGGN 288

SEQ ID NO:3187

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03758

SEQUENCE DESCRIPTION:

GATCCCCAAA AAGTGAATAT CAATGGAGGA GCTGTTTCTN TGGGACATCC AATTGGAATG 60
TCTGGAGCCA GGATTNTTGG TCATTNACT CATGCCTTGA AGCAAGGAGA ATACGGTCTT 120
GCCAGTATTT GCAATGGAGG AGGAGGTGCT TCTNCCATGC TAATTCAGAA GCTGTAGACA 180
ACCTCTGCTA TTAAAGGAGA CAACCTATG TGACCAGAAG GCCTGCTGTA ATCAGTGTGA 240
CTACTGTGGG TCAGCTTATA TTCAGATAAG CTGGTTTCAT TTTNATN 288

SEQ ID NO:3188

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03759

SEQUENCE DESCRIPTION:

GATCAGCAGC TGTGGAAATA AAGCTTGTA GCCCTCTGCT GGCCACAGTA NAGGAAAGTA 60
GCACAAATAG GATACAGTTG TATGTAGTCA TTGGCAACAA TTGCATACAA TTTACTACC 120
AAGAGAAGGT ATAGTATGGA AAGTCCAAAT NACTTCCTTG ATTGGATGTT AACAGCTGAC 180
TGGTGTGAGA CTTGAGGTTT CATCTAGTCC TTCAAAACTA TATGGTTGCC TAGATTCTCT 240
CTGGAAACTG ACTTTGTCAA ATAAATAGCA GATTGTAGTG TCAAA 285

SEQ ID NO:3189

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03760

SEQUENCE DESCRIPTION:

GATCTCACCA TTATGACATC CATCCCCCTA GCTCACCACA TAGCACATAG AATGATATTT 60
TTAATTTGTA AGAGGCCATC CAGGTACTAA GGNCCCAAGG CATAAGATT CACAAAATNA 120
ACTAATCTTT TTGCCTCAGA ATACAAAAC ANCAAAANTA TAAAGCTGTA TTTGGACANC 180
TANAAAACAC CAAACTATCT CATTGCAATT NGTATTGTAG CAGATGTTCA GCAACTATCC 240

TAATCANTGT TATTGTGTTT CANTTTAACT GGGTTAAATG TTN

284

SEQ ID NO:3190

LENGTH:282

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03761

SEQUENCE DESCRIPTION:

GATCTCGACT CCCCCCTGGC CACAGACCCC CAGGTCATTG TGTTCACTGT ACTCTGTGGG 60
CAAGGATGGG TCCAGAAGAC CCCACTTCAG GCACTAAGAG GGGCTGGACC TNTGCGGCAG 120
GAAGCCAAAG AGACTGGGCC TAGGCCAGGA GTTCCCAAAT NTGAGGGGCG AGAAACAAGA 180
CAAGCTCCTC CCTTGAGAAT TCCCTGTGGA TTTTAAAAC AGATATTATT TTTNTNATTA 240
TTGTGACAAA ATGTTGNTAA ATGGGATATT AAATAGAATA AA 282

SEQ ID NO:3191

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03762

SEQUENCE DESCRIPTION:

GATCTGGAGA AGTAAGATGG CCAAATAAAA GCCTCTACCA ATCATCCTCC CCACAGGAAC 60
ACCAAATTTA AGAACTATCT ACACAAAAAA GCACCTTCAT AAGAACCAA AATCAGAGAG 120
AACAAGGATA AAGAAGTATC CAAATACAAA GAAAATGTTA TGCAAGTGAC CTTTAGAGAT 180
GTTTTAAAGA TGACAAAATA TTGATGANGA TGGGCCAACA AGTGTTACTG TTACCTCTAA 240
TAAAGTTTCA TCACTAGTTT CACCATGGTT AATTGGAAA 279

SEQ ID NO:3192

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03763

SEQUENCE DESCRIPTION:

GATCTGCTCA AATGCACCAA CACTGCCAAG TGACTAAGGT AGAAAAGAAA AATAACAGGT 60
ATCGTCATCT GAAGGACAGA TGAATCTTTT TCTGCCCCCT CTTCACAATG GAATATAAGG 120
AACAATTATG GGATGTCATC AGAATGGATG CCATAGGACC TACAGCTCCC TTTCTNTTTA 180
TTGTNATTAT ACTTTAAATA TGACATTGTC TTTNATGTGT ATGTTCTAT ATTTTCAATG 240
TATCTTTTTC CTTCAGTAAA CCTGATATTC AAATAAA 277

SEQ ID NO:3193

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03764

SEQUENCE DESCRIPTION:

GATCACAGGG AGCCTGTGTT TGTTGGAGGT GTTCCAGAAT CTNACTGAC ACCACGCTTG 60

01087

GGCCCCAGCA AACCN TTCAC AGGCTGCATA CGCCACTTTG TGATTGATGG ACACCCAGTG 120
AGCTTCAGTA AAGCAGCCCT GNTANGCGGC GCCGTANGCA TCAACTCCTG TCCAGCAGCC 180
TGACATGACA NAGCACAGCT GCCCAANTAC AAAGTTCTTT AGNGCAATGN AAGNAACACA 240
AAAGCCAGNC CAGGAGGCNC CAGTTNCTTA TTCCTTN 277

SEQ ID NO:3194

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03765

SEQUENCE DESCRIPTION:

GATCACAGAA GCCACTGCAC TCCAGCCTGG GTGACAGAGT GAGACTCTGT CTCAAAAAAA 60
AATTAAATAA ATTATTATAA CCTTTCAGAA ATGCTGTGTG CATTNNATG TTCTTTTTTT 120
TAGCATTACT GTCACCTCTCC CTAATGAAAT GTACTTCAGA GAAGCAGTAT TTTGTAAAT 180
AAATACATAA CCTCATTCTG ANTAATGTCC CTCATTTTGA CTATAACTGT GCTTGGTTTC 240
AAANGCAAAN TTAANCAAAA ATCTCAGTCA AA 272

SEQ ID NO:3195

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03766

SEQUENCE DESCRIPTION:

GATCTCCTGC TGGTCAGTGG GGC GGCGGCA GCACTACCGT GGCCTGGTAC CAGGTGAGCC 60
CGCTGGCCGC CCGCCTGCTC TACCCCTACC TGGCCTGGCT GGCCTTCGCG ACCACACTCA 120
ACTACTGCGT ATGGCGGGAC AACCATGGCT GGCATGGGGG ACGGCGGCTG CCAGAGTGAG 180
TGCCCGGCCC ACCAGGGANT GNAGNTGNAC CAGNAGGTGC CATNANGTTT NTAATNTAGT 240
GGCCGTNANG TTTTAATGAC CANTGGGNCT GN 272

SEQ ID NO:3196

LENGTH:269

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03767

SEQUENCE DESCRIPTION:

GATCCCATCT NTTTTCCCTT CTTTCCTCCT GGTTCCGGTC AGTTCAGAGG ATTTAACAAT 60
CACAAGTGTC CTGCAAAAAT GCCTGAACAT TATTCTTAGG CCCTCGTGGA TTTTTTTTTT 120
CAGAAAACCT AAACAAAAAA NGACTTACTA NGAATATGT ACAGCTACCC CTGTTTTTCAG 180
GCACTATGTT TGNGANCATT TTNGCCATTG ANGTTACAC GTGGCATCAG CCCATGCAAG 240
ATAGGTTTCT GTATTNNTAT ATNANNNTN 269

SEQ ID NO:3197

LENGTH:269

TYPE:nucleic acid

TOPOLOGY:linear

01033

CLONE:HUMGS03768

SEQUENCE DESCRIPTION:

GATCCAGCGA GGGGTCCAGG CCCTCTGCAT CTCCTCAGGC TCCAACCCTG CTCCTCAGC 60
AATNAGCTCT CCTCCAGCTT TGGCTTTGGG AAGCCAGACT CCAGGGACTG AAAAGNAGCA 120
ACAAGGAGAG GGTCTGCTTG AGAAATGCCA GATGCTTGGT CCCCAGGAAC TAAGGCGACA 180
GAGTGCAGGG TGGGGGCAAG ACTGGGCTGT AGGGGAGCTG GACTACTTTA GTCTTCCTAA 240
AGGACAAAAT AACAGTATT TTATGCAAA 269

SEQ ID NO:3198

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03769

SEQUENCE DESCRIPTION:

GATCCCCTGG AGCCCAGGAG GNAGGTGTGT NAGCTCAATC CGGACTGTAN CGAGTTGGCT 60
GACCACATCG GCTTTNAGNA GGCCTATCGG CGCTTCTACG GCCCGGTCTA GGGTGTGCGCT 120
CTGCTGGCCT GGCCGGCAAC CCCAGTTCTG CTCCTNTCCA GGCACCCTTC TTCCTCTTC 180
CCCTTGCCCT TGCCCTGACC TCCCAGCCCT ATGGATGTGG GGTCCCCATN ATCCCAGCTG 240
CTCCCAAATA AACTCCAGAA GAGGAAA 267

SEQ ID NO:3199

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03770

SEQUENCE DESCRIPTION:

GATCTGAACC TGTCATTTGA AGTACAGGTT AAAGACTGTG TCCACTTTGG GCATGAAGAG 60
TGTGGAGACT TTTCTTCCCC ATTTTCCCTC CCTCCTTTTT CCTTTCCATG TTACATGAGA 120
GACATCAATN AGGTTCTCTT CTCTTTCTTA GAAATATCTG ATGTTATATA TACATGGTCA 180
ATAAAATAAA ACTGGCCTGA CTTAAGATAA CCATTTTAAA AAATTGGGCT GTCATGTGGG 240
AATAAAAGAA TTCTTTCTTT CCTAAA 266

SEQ ID NO:3200

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03771

SEQUENCE DESCRIPTION:

GATCTGACTT GGGGAAAGGG TTATCAGAGC CTAGAGGGGC TAAAAAGTA ATCATTGAT 60
GTACATACCA CACTCCTTGG CTTCTTTCT CTTCCCTTAA CCCTTTCTGC TTTTCATTAA 120
CCACATTCTT GCACAACTCA TTTCTGAAAA CCTACCATGT TTCTTTACAG AGCCATCCAA 180
AAATTTTTTG TCCCTACATA GCAATTTTCT GTGGCACTGA GAAACCATGT ATGACCACAA 240
TAAAAATCCA TTTTGTGAAA GGAAA 265

SEQ ID NO:3201

LENGTH:262

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03772

SEQUENCE DESCRIPTION:

GATCTCAGCT CACTGCAACC TCTGCCTCCT GGGTTCAAGC GATTATCCTG CCTCAGCCTC 60
CTGAGTAGCT GGGATTACAG GCATGCGCCA CTATGCCAG ATAATNTTTT TGTATTTTAA 120
GTAGAGACAG GGTTTTACCA TGTTGGCCAG GCTGGTCTGG AACTCCTAAC CTCAGGTTAT 180
CCACCCACCT TTGGGCCTNC CAAAGTGCTG GGATTATAGG CATGGANCCA CCGTGNCTGG 240
NCANAGATGT AAGTNTAAAT TN 262

SEQ ID NO:3202

LENGTH:260

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03773

SEQUENCE DESCRIPTION:

GATCCACCTG CCTCGGCCTC CCAAAGTGCT GGGATTACAG GCGTGAGCAC CATGCCANC 60
CACCTTTTCT ATNTTTAGAT ACATAAACAC TCACCACTGT GTCACAGTCA CCTACAGTAT 120
TCAGTACAGT AGCATATGCT GTACAGGCTT GTAGCCTAGG AGCAATAGGC TATACCATAT 180
AGCCTAGGTG TGTACACCAT CTAGGTTTTT CTAACCTACAC TCTATGGNGT TCACACAATA 240
AAATTGCCCA NCGACGCAAA 260

SEQ ID NO:3203

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03774

SEQUENCE DESCRIPTION:

GATCCCAGCT TATGGCCTTG ACCCAGCCGT CCTCACAGAT GCCGGGTGAC CCTCTAGCTC 60
TCTCTGCATC TCCACCCCC CGACACCCTG GGACCCTCGA CCCCACCCTT CTTTCCTACC 120
AGCCCAGAGC CTTGTGGCTT GTACAGTTTT GAAACTCCCG TTCTATTTTA TGATGGTTGA 180
TAATAGTCAG TAACNNAATA AAGGAACGTT TGTTAAAATA TCAAA 225

SEQ ID NO:3204

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03775

SEQUENCE DESCRIPTION:

GATCTGCCCC CGGCGNACCC GTGTTATGTT TTGTGCTGTG TCCACGCGCT AAGACGACCC 60
CCTCCCCCGT ACTGACTTCT CCTATAAGCG CTTCTCTTCG CATAGTCACG TAGCTCCAC 120
CCCACCCTCT TCCTGTGTCT CACGCAAGTT TTNNACTCTA ATATNNNNAT GGCTTTTTTT 180
CTTCGGCAAA AAAATAATAA AACGTTTCTT CTGAAA 216

SEQ ID NO:3205

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03776

SEQUENCE DESCRIPTION:

GATCTGACAC TTCCTTTCCA TTGCTTGGCC TGAACAGACT GACCTTGTA ACTTAAGCCT 60
GGAGTCCATG CCTCGTCTTC CTTTGTTC A TTGCTGTAC CAAGAAAGCC AAGGAAGAGC 120
AGCCTGACTC ATTCTTCTTG GCTGCAGCCT CTTCCCCACT TCCTGGGAGT GACCCAGCGT 180
TATTCCTGCC TCCTCACTCC TATTCTCTTT GCCTTTGTGT AAAAATAAAA TGGAAATAAA 240
CAAGTTGCAC AGTAAA 256

SEQ ID NO:3206

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03777

SEQUENCE DESCRIPTION:

GATCTCTTTT NATCATATAT GACATTAAGG CTACAGAAGT TTTGTGCAAN AATCTTAATT 60
CATATTTATN AATTTCAAGG GAATATTGAA AGGTTTTAAA ATGGCATACA GATAATGGAA 120
AATAAGCTTT ATGTTTCAAG AAGGGCAGAC TCACGAATTT TTTAGAAAAC AGTGCTTCTT 180
AATGATATGC TATTATNCTT ATNAGTTATG TGCAAGCTTT GTATATNCTT ATATNTATAT 240
NTAACTNTAA CCCTCN 256

SEQ ID NO:3207

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03778

SEQUENCE DESCRIPTION:

GATCCCAATT CGAGAGGTTT TAACCCCAAG ANCGGACATC TCGATTGCAC ACGTTCTGGT 60
TGCCCAGAGC GACCTGTCTT GTCTCGTCCC AGCCACCAGC GTGGCTGTGC GNAGAGGGAC 120
CTGCTGTGCC ATCAACAAGG TGCTTATGGG NAACGTTCCA TACCGGGGGN GCCGCCAAA 180
TNAGCTGGAG CCTCCCATGC CCACCTGGAG NAGCNGAAGA GAGGATGGAG GCCCCCAGTG 240
NNGGNNTCGC ANN 253

SEQ ID NO:3208

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03779

SEQUENCE DESCRIPTION:

GATCATGNTT CATGTGCTAA AAATAAATT GAAACACGGA AGTAGTGGTT GGTCCAGTTT 60
GAAAGCTCTT ATNAGTATTC TTCATCCTGG CTGTAATAAT AGCCATNATT TGTNATGCCT 120
TTGTTATGTA GCAGACACTC TTAAGNATTT NATGTGTATN ATTCAAATTG CTATNACTGT 180

TCTTTTATA GTTGAGAATC TCAGGATACC TACATTTATC ACTTTTCAA TATATATGTA 240
TTTCTTATTA AA 252

SEQ ID NO:3209

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03780

SEQUENCE DESCRIPTION:

GATCAAGCTG TCCGAACCTA CCAAGAGCAC AAAGCAAGCA TGCATCCCGT GACTGCAATG 60
CTGGTGGGGA AAGACTTAAA AGTGGATTAA AGACCTGCGT ATTGATGATT TTAGAGATTT 120
CTCTTTTATA AATGGAATTC GTAAAGAAAT ATAAACTTTC AGCTCACAAT TAAAACTGTC 180
TTTTTAGTTT TGGCTTTTAA TTGTTTGTG GGTGATTTTA CTGAAATAAA GTTGAGCTAC 240
TTCTTCTTAA A 251

SEQ ID NO:3210

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03781

SEQUENCE DESCRIPTION:

GATCTTGTGT TCAGATGAAA GTGCAAGTTT TTATTAATTT GGATTGCCTG AACAGTGTAT 60
CCCATGATGA TGAAGGAAAA TGGAGAGATT TTTCTTTTAA ACTCTGNNNN NTCAGAGATG 120
AAGCCACGCC TTTCCATTTT TCAATGCTGC ATATTTAATC TGCAACAAAA ATGTTAAGCC 180
ATAACAGCCT TTTTATATTT TAGTTTGTCA CCTTTGCATT GCAGAATAAA TACTGGNTAA 240
CCATTTTAAA 250

SEQ ID NO:3211

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03782

SEQUENCE DESCRIPTION:

GATCTTACTT GTCCTGCTT ACGAAGATTN CCCAATNACT GGTCATCTGA CCCTACTTGA 60
ACACTCCTGA ACAGTCATGT TTTNAAAAT NTCCTTTAT ATCAAGTCAG AGAGTATACT 120
TCTATAAATT TNACTCATGG ATGTTAGGAA ATCTAGTCAT CTTCCCTGTG ATTGCCCTGT 180
TAAGTATTTA ACCATAGCTA TCATGTGTTT CCCAAATCTT CTCTAGATTA AATATCTTCA 240
GTTACTTCAA A 251

SEQ ID NO:3212

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03783

SEQUENCE DESCRIPTION:

GATCTAGACT GAGAATCAGC CTGAGCTTTA CACAGCTGGG GTCTGTTACT CGCGTTTTGT 60
AGACTTTTGT GTAACATTTT GTACCGTAGA CAGAATGTGA GGAGGAAGTA ACACACAGAG 120
GAGGATGTGT GTGTATGCAT GTGTTTGAAT TCACAAGGAA GAAATTATTT ATCTTGAGCT 180
TTTTCCTTTG TTATTCAATT TCTATTGATT TATTAGTAAT AACAATGATA ATAAAATGTA 240
AATGAGCAAA 250

SEQ ID NO:3213
LENGTH:250
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03784

SEQUENCE DESCRIPTION:

GATCTAACGT GTTCCAGTGT CTGTCTGAGG TGTCTTAAAA AATCAGAACA AAACCTTCTAT 60
TATCCAGAGT CATGGGAGAG TACACNCTTT CCAGGAATAA TGTTTTGGGA AACACTGAAA 120
TNAATCTTC CCAGTATTAT AAATTGTGTA TTTAAAAAAA AGAAACTTTT CTGAATGCCT 180
ACCTGGCGGT GTATACCAGG CAGTGTGCCA GTTTAAAAAG ATGAAAAAGA ATAAAAACTT 240
TTGAGGNAAA 250

SEQ ID NO:3214
LENGTH:250
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03785

SEQUENCE DESCRIPTION:

GATCATAGGT CTGGACACTC CATCCTTGCC AAACCTCTAC CCAAAAGTGG CCTTAAGCAC 60
CGGAATGCCA ATNAACTAGA GACCCTCCAG CCCCCAAGGG GAGGATTGCG GCAGAACCTG 120
AGGTTTTGCC ATCCACAATC CCTCCTACAG GGCCTGGCTC ACAAAAAGAG TGCAACAAAT 180
GCTTCTATTC CATAGCTACG GCATTGCTCA GTAAGTTGAG GTCAAAAATA AAGGAATCAT 240
ACATCTCAAA 250

SEQ ID NO:3215
LENGTH:250
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03786

SEQUENCE DESCRIPTION:

GATCAAACTG CCATTACAG TGTAAGGCAG CACTTAAATT TCGAACCTAA AGTTTAGATG 60
CATTGTATAA AAAAACCTAA AAGCAGTATC TGTTNNTNNN GCTGTAAACC AAGTTGGAAG 120
CTATTCGGAT AATTTCTTAA ATATTGATGA NCTTTGGAGT ACTGTTTCTN CCTTCAAAC 180
GAATGTAATT AATNCATGAT TAAATGCACC TNATATGTTT AANCAATCTT TGTATACTTN 240
TGGGNTTTTN 250

SEQ ID NO:3216
LENGTH:252
TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03787

SEQUENCE DESCRIPTION:

GATCGCCACA CTGCCACTCT GCTGCCCAGC CACCAGGATT TCTGCCTGGA GCCCTTTGCC 60
CTGTCCCTGC TGCCTGAGGT GGCCTAGAGC AGAGGAGAAG AATTGCTCC AGGCCAGGAG 120
CACAAATCGT TGTTCATGA ATTTNTCTCC AACTCGACCT TGGTAAACGG AAATNTTGGG 180
GGTGAAGAGA AACAATCACT ATTTTNTNCT TTTTATCTG GTAAATAATT AAAAGAAAAA 240
CCGAACACTA AA 252

SEQ ID NO:3217

LENGTH:336

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03788

SEQUENCE DESCRIPTION:

GATCTGTATT GGATAAGGAC CAATGNACAG CAAAGCAAAA ATGGCTTTAA AGCTTGGTGT 60
TACTTTTNTT AAGTTGTTTA ATTATAGTTA AGCAATTTCA AAAATGCTCC AAAGAAATGT 120
GAAAGGACCT TTTGTCACAG CACTTCAGAA AATACACAAC AGCCCCTTCT GCCCCCGCAC 180
AGAAATGCTG CAGAGTATAT AAAACTTGAG ACATTTTGT AGGATGCCTG ACGAGGTGTN 240
GCCTTTTATC TTGTTTCCGG ATGCATATTT ATTACGAGTA CTCTGGTTAA ATATTGAAAA 300
GTTATATGCT GTAGTTTTTA GTATTTTGTC TTTGTN 336

SEQ ID NO:3218

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03789

SEQUENCE DESCRIPTION:

GATCTCGAGT GTTATTTTCT GATTGTGGTG TTGAGAGTTG CACTCCCAGA AACCTTTTGA 60
GAGATGCATT TATAGCCCTA GGGGTGGTAT GACCCAAAGG TTCCTCTGTG ACAAGGTTGG 120
CCTTGGGAAT AGTTGGCTGC CAATNTCCCT GCTCTTGGTT CTCCTCTAGA TTGANGTTTG 180
TTTTCTGATG CTGTTCTTAC CAGNTTGGGA AAAAAGTGTG GATTAAA 227

SEQ ID NO:3219

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03790

SEQUENCE DESCRIPTION:

GATCTGCATA GAAAATTTTN ATACAATTTT TTGAAAGTCC TTAGGTGAAA CATTTACCCA 60
TTAAAAAGGA AGCAGAAATA CTGAGACATG AAAGGCATTA TCAACTAACT CTAGACTCTA 120
GAACCCATTC TNGCATATCT CACGTGCAAT TTTTAAAAAT AAGTTAATAA TTCANCTCAT 180
ATCAACAAAA GCCTTTGNN A CATGGGTTTN CACTNGATAT CACCTAGTGC TNANGNTAGA 240
NGCCAANN 248

SEQ ID NO:3220

LENGTH:245

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03791

SEQUENCE DESCRIPTION:

GATCCAGTGC TCTCCCATCT AACAACTAAA CAGGAGCCAT TTCAAGGCGG GAGATATTTT 60
AAACACCCAA AATNTTGGGT CTNATTTNNA AACTTTTAAA CTCCTACTG ATGATTCTNA 120
CGCTAGGCGA ATTTTCCAA ACACATAGTG TGTGNTTTT GTATACACTG TATGACCCCA 180
CCCCAAATCT TTGTATTGTC CACATTCTCC AACAAATAAG CACAGNGTGG ATTTAATTAN 240
GCAAA 245

SEQ ID NO:3221

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03792

SEQUENCE DESCRIPTION:

GATCCACCCG CGTTGGCCTC CCAACGTGCT GGGATTATAG GCGTGAGCAC CACGCCCCGC 60
CTAAATCCA TATTCAAAGA AGCAATTTCA GTTCCTTTCT AAGCTTTGTC AGTCAAGGGG 120
CTCCACTGAC TTCCTAGGCC CTGTAATTTA ACCAGTCTTT AAGGTTTTGC AGGAAAGTCC 180
CTTCTTCCAA GTGGTTTTTC CAAATCGCAC AATGGCAAAG CCAAACAGAG GAAGAAACAT 240
TAAA 244

SEQ ID NO:3222

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03793

SEQUENCE DESCRIPTION:

GATCAGATTG CTGAAACACT ATGGGAACAG GTATTGAAGC CCCTGGGTGA TAATNTAATG 60
GAGGAAAACA TAAGGCAGTC TGTAACAAAC TCTATCAAAG CAGGCCTGAC TGACCAGGTG 120
TTCATCATG CCAGATTAAG GACAGACTGA CAGTTCATCT CCTCACGGAC TCCACTCTCT 180
TTTTTTTNA TGCTTGCTGT ACAATGAGAA CTCAAATAAA ANTAAACCAA AGTTTACAAT 240
CAAA 244

SEQ ID NO:3223

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03794

SEQUENCE DESCRIPTION:

GATCCAGGAG GAGCAGCACC CGAGCCCTGG AGTGGCCCAG TACCCTTCCA AGAGGCCACA 60
GTCCCAGCCA GGACAAAGTA TGCGGCCCCT CCTGGTGCN CAGGTGGGAC AATGTGAACA 120
TGGACTCGAA GACATGGCCC TTTCTCTGTA GTTGATTTTT TAAATGTGCC ATTATTGTTT 180

TTAAAAAANN CGGNAAAANG AAANGCANAC AAATAAAACA CCTTTAAGAG GCTTGAANGC 240
GNCAAA 246

SEQ ID NO:3224

LENGTH:243

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03795

SEQUENCE DESCRIPTION:

GATCATAACT CATGAATATG TTTGTAATCA TGGTAATTTA GATTTTNATG AGGAATGAGT 60
ATCTGGAAAT ATTGTAGCAA TACTTGGTTT AAAATTTTGG ACCTGAGACA CTGTGGCTGT 120
CTAATGTAAT CCTTTAAAAA TTCTCTGCAT TGTCAGTAAA TGTAATATAT TATTGTACAG 180
CTACTCATAA TTTTAAAG TTTATGAAGT TATATTTATC AAATAAAAAAC TTTCCNATAT 240
AAA 243

SEQ ID NO:3225

LENGTH:241

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03796

SEQUENCE DESCRIPTION:

GATCTGACCT TTTTTTTCCA GTTGAAATGT ATTAACACAC CTTCCACAAT NATTTTATAA 60
GAGTCAGCAT AACATAGTGG ATAAGAACTG TGAGATGTTT AACCTCTCAG TAACTCGGTT 120
CTCTCATTAT AAAATAGGAA TAAAATCAGT ACCTGTTTCA TATGAAGGTC GTTTCTGAGA 180
ATTAAATGGA CTAATGTATG CAAAAAGCCT GGCAACAAT AAACACTCAT CTGACTTTAA 240
A 241

SEQ ID NO:3226

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03797

SEQUENCE DESCRIPTION:

GATCAAAATA TATTTGTCCA GAAACTCTTG GGCCAGTTCT CTGAGAAGGA ACTGGCTGCT 60
GAAAAGAAAC GCATCCTGCA CTGCCTGGGG CTTGCAGAAAG AAATCCAGAA ATATTGCTGT 120
TCAAGGAAGT AAGAGGAGGA GGTGATGTAG CACTTCCAAG ATGGCACCAG CATTTGGTTC 180
TTCTCAAGAG TTGACCATTA TCTCTATTCT TAAAATTAAA CATGTTGGGG AAACAAGAAA 240

SEQ ID NO:3227

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03798

SEQUENCE DESCRIPTION:

GATCCTCCCA CCTNCAGCCT CCCAAGTAGC TGGGACTACA GGCACATGCT ACCATGCCCA 60

GCTAATTAAA AAAAATTTTT TTTTGTAGA GACGGAGTTT CACTGTGTTG CTCAGGCTGG 120
TCTTGAATC CTGAGTTCAN GCAACCCTCC ACTTCAGCTT CCCAAAGTGC TGGGATTACA 180
GGCATCACTG GCCCAGGCAG AGCCAATTNT GTATAATAAA TCTGTNTCTC TCTGTCAA 239

SEQ ID NO:3228

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03799

SEQUENCE DESCRIPTION:

GATCAAATTT NATTGAATGG TTTGAGGTTG TAGCTCTATA AATAGTAGTT TTTAACATGC 60
CTGTAGTATT GCTAACTGCA AAAACATACT CTTTGTACAA GAGGTGCTTC TAAGANTTTN 120
ATTGACATTA ATGACACTGT ATACAATAAA NGTGTAGTTN CTNAATCGCA CTACCTATGC 180
AACACTGTGT ATNAGGTTTA TCATCCTCAT GTATTNTNNT GTGACCTGTA TGTNTATN 238

SEQ ID NO:3229

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03800

SEQUENCE DESCRIPTION:

GATCCAAAGC CATCCCAGAC CTTCCCGGGC CCCTCTTCCT GGCAGATGAC TCTCCCGCT 60
TCTGCGTCCT GCCTGCCCAT TCATACCAGT TTGAACTGCA ACAGCCTAGC TCCTCACCTG 120
TGCACCTCCT TCCCCAGGTG TGCACGTCTC CAGCCCCGAG CGCGTGTCTT CCTGCTCATC 180
TGGGTTTCCT GGGCAAATAG TGGCCCTCAA TAAATNTTTG CTGAGTGAGA ACATAAA 237

SEQ ID NO:3230

LENGTH:515

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03801

SEQUENCE DESCRIPTION:

GATCGCCAGA GCCCAGGAGT TTGAGGCTGC AGTGAGCTAT GAGGGTGCCT CTTTGCTCCA 60
TCCTAGGCAA CAGAGTGAGA CGCTGTTTAA AAAGGAAAAA ATCCTTCCNT AGAGCTAGTA 120
TCCTAAAGCT GCAGAGCTAG CCCATGACCT CATTGGTTTC NTTGTCCTTG GGGTGCTTTT 180
CCTGAATCTT TGGGGGTGAA GGGAGTNTTG CTCCCAGTCC AGAGGCCTGA TTCTTTTCGG 240
ACTGGGTTCT CAAGACACGA CCAGGTTCTC AAGACACGAG TCCCCTTNTT CCTNCCATT 300
AAAGGGGTT TNTNAGAAGC AAGANCAGCC CCTTTCCCA AGTCACAGCC TGAAGGGAGG 360
CCCCNGAGAN GCTTCCCTCC TTTCCCNCA CCCTGNTTCC TTAACCTTNT TTTGNCCCTG 420
NTTTTTTTAG GAANCTGGNA GTTTCAATTN GTTTTAANG GGGGATTGGG GGGGAAGGGA 480
AGNCTTNGGG GGACAAAAA NNTTTTNTT NCAAN 515

SEQ ID NO:3231

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03802

SEQUENCE DESCRIPTION:

GATCAGTGTA TGCGAAAAGG TTTTtagGAA GTATGGCAAA AATGTTGTAT TGGCTATGAT 60
GGTGACATGA TATAGTCAGC TGCCTTTTAA GAGGTCTTAT CTGTTcAGTG TTAAGTGATT 120
TAAAAAATA ATAACCTGTT TTCTGACTAG TTTAAAGATG GATTTGAAAA TGGTTTtGAA 180
TGCAATTAGG TTATGCTATT TGGACAATAA ACTCACCTTG ACCTAAA 227

SEQ ID NO:3232

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03803

SEQUENCE DESCRIPTION:

GATCACTAGC TAATNCTCAT ATCCATGCCT TTTTgTCCTG TTTACAGTCT TAAAAGAGGT 60
AAAACAGCAA ATATTTTTTN AAGGGAActA TAACCTTAGG ATTcCTGAAA ANAATTTCAA 120
AAAAAAAATA AAGACACTGT TGCCAATGTG NCCCAAAAct TAAGACCATA CTAATGGCAT 180
ATATTTGTNA CAATNAAAAA TTAANTTTAC TACTTAATCC TAAA 224

SEQ ID NO:3233

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03804

SEQUENCE DESCRIPTION:

GATCGGTGCT TTGTGTAAAT ACATCTTTAA CATTTGGGTG GAGAGGGGCC TTAAGAAGGA 60
CAGTTCATTG TAGGAAAGCA ATTCTGTACA TGAGTTTAAG CATTCTTGTT GCATTGTCTC 120
TGCAGATTCT ATTTTtGTTT ACAATATTAA AATGTATGTN AGCAAAATGG GTGGATTTTC 180
AAATAAAATG CAGCTTCCAC AAAAGTTTTG TNATGGTATT CTGGTCTGAG ATGCATTTNC 240
ATTTTNCCTN TCTCTNTTA TTATCAATAT TGTNATTTT CCCTAATAAA ATATACCCAG 300
GTGNATTAAA 310

SEQ ID NO:3234

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03805

SEQUENCE DESCRIPTION:

GATCAAAATT TTNAGACAAT CCTTGGTCTG GATTGGTTAA TGAAAATNTN TTGTTTAAGA 60
GGTTCTATTA AAAAATATTT CTAGTGTATT AGTCATAATT NTTTTGTGG AGTGGGGGTA 120
AACCACACCA TTAAGGGAAT AAAATGTAAT TTGAAAGAGG TGATTATAAG ATTTGTTTCA 180
GGCCCCAAAA TATAAATAAA AATTGGTGTG GAATCTCAAA 220

SEQ ID NO:3235

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03806

SEQUENCE DESCRIPTION:

GATCGATACA GAGCATCTGC ACTGGGATTG TCCGCCCCGC CTGTCAGGGA GGCCTCGGGG 60
GCTAATNGAG CTGAGGGTAT AGTCGGCCTT GGACCCTCGC TTTTTCCTT TCCTGTACTA 120
TNAAGATAAC TGCCTTATCT CCCCCTCAGG ACTGTTTTGG GGATTAAATA GGACGTTTAA 180
ATNACCAACG CTCTTTGAAA TAAACATTTC AAAATTAAA 219

SEQ ID NO:3236

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03807

SEQUENCE DESCRIPTION:

GATCAAAAAA ACTTTTCTTC TTTTGCAAAG AAAGCTTTTT GTTTTAAACN GCAACGTACT 60
TTTCCCCTAC CTGAAGAGA CATGGTGGTC GCAGCTTCTN ATCTATATGA AAAAGTTTTT 120
GATGTATTGG AATNATTTGG GAATGCTTTT AAAACAATTT GTAATTATTT CTTACAAAC 180
CAAAACAGAA CAGAAAGGTG TGGTGCTGGA ACATCGAAA 219

SEQ ID NO:3237

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03808

SEQUENCE DESCRIPTION:

GATCTGCATT TTCAGAAGAG GACAATCAAT TGAAACTAAG TAGGGGTTC TTCTTTTGGC 60
AAGACTTGTA CTCTCTCACC TGGCCTGTTT CATTTATTTG TATTATCTGC CTGGTCCCTG 120
AGGCGTCTGG GTCTCTCCTC TCCCTTGCAAG GTTTGGGTTT GAAGCTGAGG AACTACAAAG 180
TTGATGATTT CTTTTTATC TTTATGCCTG CAATTTTACC TAGCTACCAC TAGGTGGATA 240
GTAAATTTAT ACTTATGTTT CCAAA 265

SEQ ID NO:3238

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03809

SEQUENCE DESCRIPTION:

GATCTACTAT AAGGTATTCT ATATTTATAT NACTTCAGAG ACGCGTATGT AATAAAGNAC 60
GCCCTCCCTC CAGTGTCAC ATCCAGTTCA CCCCAGAGGG TCGGCAGGT TGACATATTT 120
ATTTTGTCT ATTCTGTAGG CTTCCATGTC CAGAACTCTG CTTAAGGTTT TAGGGTACCT 180
TCAGTACTTT TTGCAATAAA AGTATTTCCT ATCCAAA 217

SEQ ID NO:3239

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03810

SEQUENCE DESCRIPTION:

GATCGGTGCT ACCAAGGAAG AGAGCACACA GATAAGACAG AGGGGAGGAG GTGGGCATTT 60
CCTACATTCC TCCTTGTTN CCGCTGCTGA NATTGCACTA TTTATTGCAA TNTAAATNTA 120
TCCTGAAGGT GGGGAGGAAT GTTAAANCTA CCATNTCCGT GTGTCATCTT GGTNTGTTTT 180
TNTCCCTGTT TGTAGCAAGA CTCTNATGAT AATNCTN 217

SEQ ID NO:3240

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03811

SEQUENCE DESCRIPTION:

GATCTATATG AAGTGGGAAT ACAGCATATA TCTGGATATT CTTATAGTTA TCTTTTAAAC 60
ATCTTATTTT TTTCATTAAT TACATATCAA CATTAATNTT GTATCTNGAA GCAAATNGAT 120
TTTGATAAT TAAATGTGTC AAGCATCTGT ATTAATTGAT TNGATGGCAT AAGGTATGAA 180
ANTANTGTAC TGCCCCATGT ATNACTGTTC CAACCAN 217

SEQ ID NO:3241

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03812

SEQUENCE DESCRIPTION:

GATCATAAGA CCAGGAGTTC AAGACCGGTC TGGCCAACAT GGTGAAGCCT CATTTNTACT 60
AAAAATACAA AATNAGCCAG GTGTGGCGTC ACATGCCTGT AATCCCAGCT ACTCAGGAAG 120
CTGAGGCAGG AGAATTGTTT GAACCTGGAA GGTGGAGGTT GCAGTGAGCC GAGATTGTGC 180
CACTGCACTT GACAGAGCGA GACTCTGTCT CAAA 214

SEQ ID NO:3242

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03813

SEQUENCE DESCRIPTION:

GATCATCGAG GACGAGAAGA TGGTGGTGGT GGCNTGTCAG CCGACTGCAG AGCTNGAGGT 60
GGGCTCGGCG GAGGTCATTG TGGAGTCCCT GGCCAGGGN GGCCTGGCCT CCCAGCTCCC 120
CGGCCAGAGA CTGTGTGCAG AGNAGAGCTT CACCGGCCAG GTGTCCTGGA GCCCTCCCTC 180
ATNATNACAG CTGCTGTCCC CGAGGACTGT GATN 214

SEQ ID NO:3243

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03814

SEQUENCE DESCRIPTION:

GATCTGGGGA GCTNTGACTG AAGGGGCTTG GTCTTCCACT CAGCATCAGC NTGGCAGTCA 60
CCACCCAGT NAGGACCTCG ATGTCCAGCT GCTGTCAGGT CTGATAGTCC TCTGCTAAAA 120
CAACACGATT TACATAAAAA ATCTTACACA TCTGCCACCG GAAATACCAT GCACAGAGTC 180
CTTAAAAAAT AGAGTGCAGT ATTTAAACCA AA 212

SEQ ID NO:3244

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03815

SEQUENCE DESCRIPTION:

GATCTCTGTA GACTAGAGTC TTGCAGCAAC ACAGAATGTA ATATAAGGCA AATGCATCTG 60
GGACTTGACC AAAGTTGTTC TGTTTTGTTT TTTTAACTGA AAGTAACAGA AGGACCTTTC 120
TTAAATGTGA CAGATGGTCC TGCAGTGTGA ACCTGAAGGA CAGTGTTAAA GCTGGGCTCT 180
AGTATATTGA TGATTTCTGC ATAAGTGTGG N 211

SEQ ID NO:3245

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03816

SEQUENCE DESCRIPTION:

GATCTATTTT TGCCTGGAA TATCTGAGAA TTGCAAACT AGACAAAAGT TTCACAACAG 60
ATTTCTAAGT TAAATCATTT TCATTAAAAAG GAAAAAAGAA AAAAAATTTT GTATGTCAAT 120
AATTTATAT GANGTATTAA NNTGCATATT TCTATGTNGT AATATANTGN GTCACAAANT 180
AANGCTGTGA CAGTNCTGTT GGTCTACAAA 210

SEQ ID NO:3246

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03817

SEQUENCE DESCRIPTION:

GATCTTTTAC CACTAAAAGA GCATTATTCT CATGTCATAA TGAGAATAAT AATTTACATA 60
CTTGGCATAA TAAATGCCTA AAAGACATTT TATTNTCTGA ATCTATTTTT TTCTTGCTAT 120
AATGGGGATA TTGTAAATAA TGCATTTGTA TTAATGGTAT TTCTTAAAGC AATCTATGTA 180
ACTGTAAATT AAACCAATCT ACAAACTAAA 210

SEQ ID NO:3247

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03818

SEQUENCE DESCRIPTION:

GATCAGAAGT GGCTAATTTA TTTNATTTCT NATTATTTTA TCCAGAGGGT ACTTTTTTTAA 60
TGGATATTTG TAAATCTNCC ACTTAACCAC TGAAAATAAT NTTNTTTTAA TCCCACCCTT 120
CCATCCATAC CTCTGCCTCC CCAAAAAGCT CCTATNAATT TNCTTATCCC CCTCATGTAG 180
CTAGTTGAAT GTGAATAAAT AACATGGAAA 210

SEQ ID NO:3248

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03819

SEQUENCE DESCRIPTION:

GATCTCCATT CTTTGCCATG AGGGCCAACA CATGAGACCC CACCTCCCTC CCTGCCTGCC 60
AGCCCTAGAC TTGTTGGAGC ATAGAGCCCT TCCTCCCCAG GCCTAAGTAT GTGGAGCTCT 120
GCTTTGGCAC TGCCCCGCAG AGGCCACGCC TATTTATTCT GTTCTNTTG TTTTGT TTTT 180
AACAACTATA CTTTGCACAC ATGAAA 206

SEQ ID NO:3249

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03820

SEQUENCE DESCRIPTION:

GATCCCCAGA GTTGGTCCAA GGAGGGAGAG TGGGTTCTCA ATACGGTACC AAAGATATAA 60
TCACCTAGGN TTACAAATAT TTNAGGACT CACGTAACT CACATTTATA CAGCAGAAAT 120
GCTATTTTGT ATGCTGT TAA GTTTTCTAT CTGTGTACTT TTTT TTAAGG GAAAGATTTT 180
AATATTAANC CTGGTGCTTC TCACTCAA 209

SEQ ID NO:3250

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03821

SEQUENCE DESCRIPTION:

GATCTGTGTG GTCCCCGACG TAACATCTGG CGAGACCCTG CCCTCTGCTG TTACCTGAGT 60
CCTGGGGATG AACAGGTCAA CTGCTTCAAC ATCAATTATC TGAGGAACGT GGCTCTAGTG 120
TCTGGAGACA CTGAGAACGC CAAGGGCCAG GGGGAGCNGG GCTCAACTGG AGGAACAAAT 180
ATCAGCTCCA CCTCTGAGCC CAAGGAAGAN TGAGTCACCC CAGAGCCCTA GAGGGTCAGA 240
TGGGGGGAAC CCACCCTGCC CCACCCATCT GANCACTCAT TACACTAAAC AACTTTTTTG 300
GNAANTNTNA TNTATGATGN GNNGNNGTGG GGGAN 335

SEQ ID NO:3251

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03822

SEQUENCE DESCRIPTION:

GATCTAATTC TNCACCTCTG CTCCAAGGGC TGGGCTGTGG GTGGGATACT GGGATTTTGG 60
GCCACTGGAT TTTCCCTAAA TTTGTCCCCC CTTTACTCTC CCTCTATTTT NCTCTCCTTA 120
GACTCCCTCA GACCTGTAAC CAGCTTTGTG TCTTTTNNCC TNTNCTCTCT TTAAACCAT 180
GCATTATAAC TTGAAAGCA AAACAAA 207

SEQ ID NO:3252

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03823

SEQUENCE DESCRIPTION:

GATCTCATTT NAATGATTTA TAGGTAAATA CTAATCAGAC ATTATTAAAA GCAAAACAGG 60
AAAAAGGTAA ACTTCTTAAA TTTAGTTACC TATAAAAATT GTCAATNTTN ATTCTTTAAA 120
AACACATGGA CTTACTATAA AAGCCTTTTT GTACTAGTGA AAAGAATCTT CAGCTATATA 180
GAAATAAAGT TATACTTTAA A 201

SEQ ID NO:3253

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03824

SEQUENCE DESCRIPTION:

GATCCCTAAA AGACAAAAGA GTCTTGGAAG GGAAGTCTGG CTTCGTCTTG AACGTTGCGC 60
CCATCACCAG TGTGAGTCCG TGGGGAAGTC TTCCTCAAGT GGGGTTCAGT CTGTAATTTT 120
CCTGTCTGTT CTTAGCANNNG TTCTGAGTTA TTTTGGATT TTTCTTTAG CCAAATAAAG 180
GCAGTGTGGT TTTACCTGAA A 201

SEQ ID NO:3254

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03825

SEQUENCE DESCRIPTION:

GATCCTAATG GTGCTGCCCT ATTTATACCT GGGTCTGCAT TAAAAGGGAA AGCCCCCCT 60
GTTGTAGATT TCATCTGCTT CCTCCTTAGG GNAGGCTGGG ATATGATGAG AGATTCCAGC 120
CCAAGCCCGG CCCCCACCG CCAGGCCATA GGGCATANTT TGCATCTCAA ATCTGAGGAA 180
TAAACTGATG ACCTGTGAAA 200

SEQ ID NO:3255

LENGTH:391

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03826

SEQUENCE DESCRIPTION:

GATCAAGCAT TTGCGTTTGG ATGGCAATCG CATCTCAGAA ACCAGTCTTC CACCGGATAT 60
GTATGAATGT CTACGTGTTG CTAACGAAGT CACTCTTAAT TAATATCTGT ATCCTGGAAC 120
AATATTTTAT GGTTATGTTT TTCTGTGTGT CAGTTTTCAT AGTATCCATA TTTTATTACT 180
GTTTATTACT TCCATGAATT TTAAAATCTG AGGGAAATGT TTTGTAAACA TTTATTTTTT 240
TTAAAGAAAA GATGAAAGGC AGGCCTATTT CATCACAAGA NCACACACAT ATACACGGTT 300
AGACATCAAA CTCAATGCTT TATTTGTNAA TTTAGTGGTT TTNTATTCT ACTGTCAAAT 360
GATGTGCAAA ACCTTTTNC CGGGTTGCAT N 391

SEQ ID NO:3256

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03827

SEQUENCE DESCRIPTION:

GATCTTTAAT TTGNATGGTG ATGAATGTCT TAGTCATGAA GAGTTTCTAT GGGGTGTNAA 60
AAAACAGAAT GCATCGAGGT TNATGGGTAC CACAACATCA GAGTATACAA GAATACTGGA 120
AGTGTGTGAA GAAAGAAAGC ATTAAAGGAG TAAANGANGT CTGGAAACAN GCTGGAAANG 180
GTCTTTTNA ATNN 194

SEQ ID NO:3257

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03828

SEQUENCE DESCRIPTION:

GATCTAGTAG GTTTCATTTT TTCCTTTCTC TTTACAATGC ACATAATACT TTCCTGTATT 60
TATATCATAA CGTGTATAGT GTAAAATNTG AATNACTTTT TTTGTGAATG AAAATCTAAA 120
ATCTTTGTAA CTTTTTATAT CTGCTTTTGT TTCACCAAAG AAACCTAAAA TCCTTCTTTT 180
ACTACACAAA 190

SEQ ID NO:3258

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03829

SEQUENCE DESCRIPTION:

GATCCCTTTT TNTNCTGGAG CTTCCGTGCC TCCCCTGCCT CTTCCAGCC CTTGTAATCC 60
TCCTTCACAG GCCAGCCAGA TACCTGTNTG GCCTNTGGGC CCATTTTNTT CCCTGTCTGT 120
CCCCACCCA CAAGAACCAG GTTCTNTAA TAAATTCTCT CCCTTCTTTA GCCAGGACTT 180
AGCCCGCAAA 190

SEQ ID NO:3259

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03830

SEQUENCE DESCRIPTION:

GATCTNAGAG CCTGCCCAAC AGCAGGGAAG CCAAGCACCC ATTCATCCCC CTGCCCCCAT 60
CTAACTGCGT ANTGANAAGG GGAACAGTGC CATGTACCAC ACAGATGTTT CTGTCTCCTC 120
GCATGGGCAT AGGGACCCAT CATTNATGAC TGATGAAACC ATGTAATAAA GCATCTCTGG 180
GGAGGGAAA 189

SEQ ID NO:3260

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03831

SEQUENCE DESCRIPTION:

GATCCCCTTC CTATCAATCA CCTGATAGCA ACAGGGACAG CTGCCAATAC CCTGCTCTTT 60
ACTCAATGGT ACCCAGGGAG GGAGCATGGG AAGAGGGTGA GCTGAGGGCT GGAGGAGGGC 120
AACAGCCACT GGGTGAGCTG TTCACGGTCT TATACTATTG TTTGTNATTA AAAGTGCTTC 180
AACCCAAA 188

SEQ ID NO:3261

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03832

SEQUENCE DESCRIPTION:

GATCAACAAG GCCACGCCCT ACAACTACCC AGTGCCCGTC CGTGATGATG GGAACATGCC 60
CGACGTGCCC AGCCACCCCC AGGACCCTCA GGGCCCCAGC CTGGAGTGGC TGAAGAAACT 120
GTGAGCACCT CCACTGACAG AGGCGGCCCC TCCCACGGNT CCAATAAAA ATGTGAAAAC 180
CAAA 184

SEQ ID NO:3262

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03833

SEQUENCE DESCRIPTION:

GATCCACCAA TGTTTCAAAT AGGACTATAA CTTATTCAAA GGCCAATNAT ACTTCGCATA 60
ATTCAATTTT AATATTATTC ACATTTTCATG TCACAAATTT AGTAAGTTAC ATGTGTTATG 120
TGATGTTTTG TTTTGATAGA TTATATCTTA CTCCTAAATA AAANGTCAAG ATTTTGTAG 180
CAAA 184

SEQ ID NO:3263

LENGTH:181

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03835

SEQUENCE DESCRIPTION:

GATCTCTCTG TGTGGAATGC CTTGGTGAGA GAGATGCTTA TAATNACTAT NATNATTTCT 60
AACCAAGCTT CTATNAATNT AATTCTAAT AATACACTAT CTTGATTGTA CTCTCCAGAA 120
AATTTNCTG TCAGTGAAAA TAAAAGAAAA ATTAAAGTAA AGCTAAGGAA CTGTCTATAA 180
A 181

SEQ ID NO:3264

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03836

SEQUENCE DESCRIPTION:

GATCCCTGGA CCATCTGCAT CCAGAGGACC GTCCGTAACG GCCGGGGGTC CAGGCGGACC 60
TTGTGGTGAC CCGGCTCGGG CNTNTCCTCG GTTTCNTTGC CTCACCCGCG GAGAGCGCTG 120
AACCTGGACA AGCAGCGGCT GGNAAGNACA GGTCCAATAA ACGCCCTCTG CGCCCAGAAA 180

SEQ ID NO:3265

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03837

SEQUENCE DESCRIPTION:

GATCTAGTTC AGAAGGAAGC AAAATCCCTT AATCTATGTG CACCGTTGGG ACCAATGCCT 60
TAATTAAAGA ATTTAAAAA GTTGTAATAG AGAATATTTT TGGCATTCTT CTAATGTTGT 120
GTGTTTNTTT TTNGTGTGTN CTGGAGGGAG GGGATTTAAT TTNAATTNA AAATGTTTAG 180
GAAATTTNTN CAAGGAANCT TTTTAATAAN GTATATNGAA AGNTAAA 227

SEQ ID NO:3266

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03838

SEQUENCE DESCRIPTION:

GATCACTTCT CCTTGGCTTC CTTCTTTTCT GTGCTTGCAT CAGTGTGGAC TCCTAGAACG 60
TGCGACCTGC CTCAAGAAAA TGCAGTTTTC AAAACAGAC TCAGCATTCA GCCTCCAATG 120
AATAAGACAT CTTCCAAGCA TATAACAAT TGCTTTGGTT TCCTTTTGAA A 171

SEQ ID NO:3267

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03839

SEQUENCE DESCRIPTION:

GATCACTTTA TTTGCTAGGG AGGGAAGTCC TAGGGTGGTT TCAGTTTCTC CCAGACATAC 60
 CTAAATTTA ACATCAATCC TTTTAAAGAA AATCTGTATT TCAAAGAATC TTTCTCTGCA 120
 GTAAATCTCG CAGGGGAATT TGCACATTA CACTTGAAAG TTGTTATTGT TAACCTTTTC 180
 GGCAGCTTTT AATAGGAAAAG TTAACGTTT TAAACATGGT AGTACTGGAA ATTTTNCAAG 240
 ACTTTTACCT AGCACTTAAN TATGTATAAN TGTACATAAN GACAANCTAG TAAGCNTGGC 300
 CTGGGGANAT GGTCAGNCCT TGTNTTGTGT TTTTGGCN 338

SEQ ID NO:3268

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03840

SEQUENCE DESCRIPTION:

GATCATAGGA GAAAACCATT TCANATGACA AGAGCACCTC AAAGGCAGCA GCCTCAAGGA 60
 GCAGCCATGG CCCAGACTT GTCGCACGGA TGCAGAAAAC TTAATGGAGG AGGCTGAGGT 120
 CAGAAATGGGA AGAGTTTTTA AAAAATAAAA AGGGGAGCTA ATATGTGAAA 170

SEQ ID NO:3269

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03841

SEQUENCE DESCRIPTION:

GATCAAGGGC AAAAAGTGGT CATTAAGTNA TCTAANATTA AATNATTTAG CCACTAAGTA 60
 ATTTNTTTAC TCTNACTTTA AACTCACCAA AGAAGATTCT TTAAAGAAA TTATGAAAAA 120
 TGTACAATTT AACATTTTAA ATAANTAGTG ACAGANGTTG TTTATAAA 168

SEQ ID NO:3270

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03842

SEQUENCE DESCRIPTION:

GATCCTCCTG CCCAGCATT CCAAAGTGCT GGGATTACAG GTGTGAGCNA CTGCCTGGCC 60
 TGGCCGTAGG TTTGTAACGT TTTCATAGAA GAGCCCTGGA GAAGACAGTA GAATNAGCCT 120
 ATCTAGTTTA AAAAATAAAG AAGCACGTTG ATTTACCAC CGCCAAA 167

SEQ ID NO:3271

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03843

SEQUENCE DESCRIPTION:

GATCAGCTTT GTTTTCCCA GAGTTCATGC AAATAGAATC TGGCTTCTNT AAGTNAGCAT 60
 CATGGACTTG GTTNAAATC GCCCGTNTG CTGAGTGTAT CTTTAGCTTG TCCCTTTTAA 120

CTGACGAGTA GTATTCCACA GTNTGGATGC ACTGTATTNN NTTTATN

167

SEQ ID NO:3272

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03844

SEQUENCE DESCRIPTION:

GATCAGAGCA TTGTGCAATA CAGTTTCATT AACTCCTTCC CCCGCTCCCC CAAAAATTTG 60
AATTTTTTTT TCAACACTCT TACACCTGTT ATGGAAAATG TCAACCTTTG TAAGAAAACC 120
ANANTAAAN TTGAAAANTA AAAACCNTAA ACATTTGCAC CAGAAA 166

SEQ ID NO:3273

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03845

SEQUENCE DESCRIPTION:

GATCTNTTTT TTTCCCTTCT TGTATCATCC CTTTGGGTTT TTCGGTTTGC TTTGGTTTTT 60
AATTTTNCCT TGTTTTNCCT ATAAATCCTG TTTTAATCTT ATAAGGGAAA ATNCATTTTN 120
TTCAACTGTN CTAGTTAATA ATGAGAACTC AATTNCTGGA AATNN 165

SEQ ID NO:3274

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03846

SEQUENCE DESCRIPTION:

GATCTCAGGA ATNACATTTT CCAACAGACC AAAAAATGTT TTCATGTAGC AGCAATGCAG 60
ATTTGGTGAA TATTTAATAT ATATTTAAGT ATGTATTTC AATTTATNACT GACAATNAAA 120
AAATATTGTT TGGCCAAATA GTAAACACCC TTTTGAAACC AAA 163

SEQ ID NO:3275

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03847

SEQUENCE DESCRIPTION:

GATCCCTTNG TTTGCTTAAT AAATTATAAA ATAATGGCTT GGAAAAGCAG GCTAGTCTAA 60
CCATGGTGCT ATNATNAGGC TTGCTTGTTA CACACACAGG TCTAAGCCTA GTATGTCAAT 120
AAAGCAAATA CTTACTGTTT TGTTTCTATT AATGATTCCC AAA 163

SEQ ID NO:3276

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03848

SEQUENCE DESCRIPTION:

GATCTGTTCT TGGTATTTNN TTTTGTTTTG TTTTGTTTT TAAATGTAAT CACCCATTGG 60
TCAGGCCAG GACTGGTCAC CATGAGCTCT GCTAGCCACG GCCCAACGA TGCTCCGGC 120
TCTCATGGAT TCCACAGCAA ATAAACTGT GCTGACAACA GAAA 164

SEQ ID NO:3277

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03849

SEQUENCE DESCRIPTION:

GATCTGGGGT CCCTAAGTCC CTCTCTTTAA AGAACTTCTG CGGGTCAGAC TCTGAAGCCG 60
AGTTGCTGTG GCGTGCCCG GAAGCAGAGC GCCACACTCG CTGCTTAAGC TCCCCAGCT 120
CTTCCAGAA AACATTAAAC TCAGAATTGT GTTTTCAGCA AA 162

SEQ ID NO:3278

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03850

SEQUENCE DESCRIPTION:

GATCCTAGGA ACTCCTATNT TCAGAAAAGA ATTTNTTCC TACTATATAA TTACAGTATT 60
TAGCTGTCAA TTTAAGATG AATTTGGTAG AGCCTTATAG TAAAGNATGT ATCTTGGTCA 120
CACACAAAGC TTGGAAAAAG TAAAAGATGT CTAAACCATA AA 162

SEQ ID NO:3279

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03851

SEQUENCE DESCRIPTION:

GATCAAGAAG TAGCCGAGGT TGATAAAAAC ATAGAACTTT TGAAAAAGAA GGATGAAGAA 60
CTCAGTTCTG CTCTGGAAAA AATGGAAAAT CAGTCTGAAA ACAATGATAT CGATGAAGTT 120
ATCATTCCCA CAGCTGCTCA ATAAAGTACA AGAGCTTAAA 160

SEQ ID NO:3280

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03852

SEQUENCE DESCRIPTION:

GATCGTGGGT CAGGGACACC GAGAGAGTGA GGTCACCTCC ACTTCAAACC TTCAGTGAGG 60
GGGTGGGATG GAGAGAATGC TGAATCTTT TTTNACGGG ATGGGGTTTT CNTCTTTGTA 120

ATTATNNCTT TAGTTTAATT AACCTTTTGG TTGTTTGTNC AATATTATAT ATNNNAN 177

SEQ ID NO:3281

LENGTH:232

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03853

SEQUENCE DESCRIPTION:

GATCAGGACT ATAATATTGT ACAGTTATTA TAGGGCTTTT GGGGAAGGGG AGGATAGCGA 60
GAAGATGCTC TGGGGGTTTT GTTTTGCTT TTCCTTCAGG GTTTTATTTT TGA CTGTTTT 120
GTTTTCTNGT NGGCCATTC TGTATTGCTG GCATCTGTGC TAAGCTTTAC AGTGGCAAAA 180
ATAATGACAT GTAGCAAAGA TTTTCAAACA AAATATTTTT NCCTTTTGTA AA 232

SEQ ID NO:3282

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03854

SEQUENCE DESCRIPTION:

GATCGATGGT GGC GCTTCT CCTGTGCCCA CCCGTCTTCA ATCTCTGTTC TGCTCCCAGA 60
TGCCTTCTAG ATTACTGTC TTTTGATTCT TGATTTTCAA GCTTTCAAAT CCTCCCTACT 120
TCCAAGAAAA ATAATTAAAA AAAAACTTC ATTCTAAA 158

SEQ ID NO:3283

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03855

SEQUENCE DESCRIPTION:

GATCTCATCA CAAGATGACC AAAAGAGTTT GAACTGTGTG TGCTATTTAG AAGATTTAAC 60
TTTATGTAT CTATAGATAC CACAGCTGTT GCTTCTAATA AATTACCTA CCTTTNAACT 120
GAAAGTTTAA TAAAGCCAAA TCAATTTGAA ATACCAAAA 158

SEQ ID NO:3284

LENGTH:390

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03856

SEQUENCE DESCRIPTION:

GATCTGCCTC ACGTGCCTG TGGTGGCCGT GTGCTACGGC TCCTTCTACA ATCTCCTCAC 60
CCGAACCTTC CACATCGAGG AGCCCCGCAC AGGTGGCCTG GCCAAGCGGC TGGCCAACCT 120
TATCCGGCGC GCCCGAGGTG TCCCCCACT CTNATTCTNG CCCTTTCCAG CAGCTGCAGC 180
TGCCGTTTCT NTCTGGGGAG GGGAGCCCAA GGGCTGTTTC TGCCACTTGC TCTCCTCAGA 240
GTTGGCTTTT GAACCAAAGT GCCCTGGACC AGGTCAGGGC CTACAGCTGT GTTGTCCAGT 300
ACAGGAGCCA CGAGCCAAAT GTGGCATTG AATTTGAATT AACTTTAGAA ATTCATTTCG 360

01110

TCAACTTGTT AGTGGCCACC TCTTATATTN

390

SEQ ID NO:3285

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03857

SEQUENCE DESCRIPTION:

GATCTCAACA CCTATGCCTC CACGTAAATT ATTTTTTCA GCCTTATTC CCTCAAAATT 60
GTAGAGTCCT AATCTTCTTC TATCTTGTGG TGTGAGACCT TGGATAAGTC TCCCTTCCAC 120
CTTTTCCTAT TACTTAAAT GGTGAATTTG CATAAA 156

SEQ ID NO:3286

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03859

SEQUENCE DESCRIPTION:

GATCAGGTGA TTTGTAAAT TGTATTTATC TGTACATGTA TGGGCTTTTA ATTCCCACCA 60
AGAAAGAGAG AAATNATCTT TTTAGTTAAA ACCAAATTC ACTGTTCAAA NTATCTTCCA 120
ACTTATTTAT TGGGTTGTCA CTCAATTGCC CTGTN 155

SEQ ID NO:3287

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03860

SEQUENCE DESCRIPTION:

GATCTTGCAA CTCCATTTTCG GAAGACACCG AGGAAGAGGA GGAAGATGAA GACCAGGACT 60
ACAGCTTTCC TATATCTCCT ATTCTAGAGT GGTAAGTCT CTNTAAGTNT TCAGTGTTGA 120
CATAGCCTTT GTGCAA 137

SEQ ID NO:3288

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03861

SEQUENCE DESCRIPTION:

GATCAGTGGG CACAGTTCTT CAGCTACATT GAGACCCTGA AATAACAAT NATATTCTNA 60
CTCGACATCT TGTCCCAAT CCTTCAAAA ATATTGATGG TGATTTGTGC TACCATTAC 120
TCGTTTATT AATAAGACA TTCAATCCCA AA 152

SEQ ID NO:3289

LENGTH:152

TYPE:nucleic acid

01111

TOPOLOGY:linear

CLONE:HUMGS03862

SEQUENCE DESCRIPTION:

GATCAGNATT GTACGTATTC AAGGTGTAAA ATNTGATAAT TTGTCGTACA CGTACATTGT 60
GCAATAACAG TCACAATNAA TTCCTCAGCG CACCCATCAC CACGAATACG ATACATTAGA 120
TATTCTGAAC TTGCTCATCT TAGGACTTCA AA 152

SEQ ID NO:3290

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03863

SEQUENCE DESCRIPTION:

GATCATAATA GTGACCAAAA TATACATGCA GACTTGTTTT TTATTATTGT TGTTTAAGCA 60
TAATTTAAGA AAAAAAATTT TTACCTGGTG AACTTGCTAT CTGCTCTGTT TCTAGTTAAA 120
ANATAATANA TTTTATCTNC CCTGTGCTGT AAA 153

SEQ ID NO:3291

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03864

SEQUENCE DESCRIPTION:

GATCTTCTTT CTTTTTACAG GAACAATTGG CTTCTTTGCA TGCTTTTGGT TTGTNACCAA 60
AATATACAGT GTGGTGAAGG TTGACTGAAG AAGTCCAGTG TGTCCAGTTA AAACAGAAAT 120
AAATTAACT CTTTCATCAAC AAAA 144

SEQ ID NO:3292

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03865

SEQUENCE DESCRIPTION:

GATCATGGTG AACTTACCAA AGCAAACAAT GCCTGTAAGA TGGTCCTGCA GCAGCCAACC 60
AGTGAAGTCT TTTGGTGACA TCCTGTTCTT GTTGATAAC TTTATATTCC TATAAATCCA 120
TTAAGGCCCC AATAAAGTTT GTCTCTAAGC GCTGTGTTAG AAA 163

SEQ ID NO:3293

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03866

SEQUENCE DESCRIPTION:

GATCCAAAAT TAGAGTCAT CAGANTTGTC ATTGAAAGTG TTAACAAAAG TAATATCAAA 60
TGACATTTGA AAAATATCCT TGTAATGA CTATATTAAT AGGTATAAGG NTTTTCTTA 120

01112

TTAATCTAAT AAAATNCCTT AATAGGAAA

149

SEQ ID NO:3294

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03867

SEQUENCE DESCRIPTION:

GATCAGGACA CTTAGCAAAT GTAAAAATAA AATCTAACTC TCATTTGACA AGCAGAGAAA 60
GAAAAGTTAA ATACCAGATA AGCTTTTGAT TTTGTATTG TTTGCATCCC CTTGCCCTCA 120
ATAANTAAAG TTCTTTTTTA GTTCCAAATT TNAGAAA 157

SEQ ID NO:3295

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03868

SEQUENCE DESCRIPTION:

GATCCGNTAG GAGTAGTAAA TGNGAGACAC AATNGCTTGA TTATACCTCN TATNTGGTTT 60
AGCTTCAGTA TTAAACAAG GAAATAAACT TGAAAATTAT TTGTCATCAT AAAAATGAAA 120
CAAANTAAAA TATTTATTGC CAGGNAAA 148

SEQ ID NO:3296

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03869

SEQUENCE DESCRIPTION:

GATCTCAGAG GCTCAGAGAC TGCAAGCTGC TTGCCCAAGT CACACAGCTA GTGAAGNNCA 60
GAGCAGTTTC ATCTGGTTGT NACTCTAAGC TCAGTGCTCT CTCCACTACC CCACACCAGC 120
CTTGGTGCCA CCAAAGTGC TCCCCAAAAG GAAGGAGAAT GGGATTTTNN TTTTGAGGCA 180
TGCACATCTG GAATTAAGGT CAAACTAATT CTCACATCCC TCTAAAAGTA AACCTACTGG 240
TTAGGAGCAG CAGTGTTC ACAGTGTGGG GTCAGCCGTC CTNCTTNATN NNNGGCCAAT 300
GGNTATTGAC ACGTGTNCNN NGTTTGGGCA GN 332

SEQ ID NO:3297

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03870

SEQUENCE DESCRIPTION:

GATCTNCTGT CCTCCTTTCA CTACATACCA ACAACCCTCT GGCATTAAAC TTCCAGTGAT 60
AGTGTATNA ACTTTGTGTC CTCAGGTCAA CAAGGGACCT CAGTAATTNG TTCTNTACAT 120
AAGTATATAT ATGGGTATTA NTNNGTN 147

01113

SEQ ID NO:3298

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03871

SEQUENCE DESCRIPTION:

GATCGCCCTC TACATGGCTT CGCAGCCCAA AAACAAATNA GTTAGGCTGC AGAGGACTGG 60
TTTGT TTTT GGCATAAACC CTTGAAGTT CCTTTTCAT TGTAAATTA AAATTTTTTT 120
NTNACTTGG ATGGCTTAAC ATTTTNCAA GAAAANTNGG AAGNTATGAA GATGNTGTTT 180
TGGTTTGT T ATGAAANGCA TATGGCTTGN CAGAGCTCAT TCGACAGTTA AGGCCATTGT 240
TTAAAGAANC GGTGCTTTGC TCTGTGTTT TNCTCCTGAT TTCCCTGGAG GTTCTGGATG 300
AGGGCTGANC ACAGGCTTNG TTANTGTNCA GTCTGTGCTG GGGGNCCTCA GGGGN 355

SEQ ID NO:3299

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03872

SEQUENCE DESCRIPTION:

GATCACCAGG GTCAGTTTNT TTAATAATGG TTTCCAAC TG CCTAATACA TTAAGTAAGA 60
NTGGNTGATA ACATGACCAG ACAGACATAA AGACCCTGTT GGAATNACA TTGAAGTCTC 120
AAAGTCAAGA TTTNTTACAC AANTNTN 147

SEQ ID NO:3300

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03873

SEQUENCE DESCRIPTION:

GATCCGCTAC TAAAGTAAA AATAACCGGT TTGTAAAACA TTAAGAGAAA AANTAGGATA 60
TTTAATACAT GTGGTGAGTG GAGANCAGGG TAAC TT TANAAAGTTTA AGGCAAATTG 120
TAAGCNCCAC AAGANATATC ANATTTN 147

SEQ ID NO:3301

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03874

SEQUENCE DESCRIPTION:

GATCTAAAAA AATTAAAAAG AAATATGAAT GAAAGNAAAA AAAATGCNAA AATNAGCAGT 60
TTCCTGGAGG AGCAGTTCCA GCAGGGCAAG CTTNTTGCTT GCNTCGTTT AAGGCCGGGA 120
CANTTTGGCC GAGCAGATGG CTATNTN 147

SEQ ID NO:3302

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03875

SEQUENCE DESCRIPTION:

GATCATNTTA TTTTACAATC ATTTATAATG AATNAATGTT NCAGTTAGCT TTAAAAGGTA 60
TACGGTGCTA ATNAGTAAAA TATTGAAGGC AATATTTTAC TGCTAGCTTG CAAAGTTATG 120
AGAGTTTAAA AAATAAAATA TATGAAA 147

SEQ ID NO:3303

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03876

SEQUENCE DESCRIPTION:

GATCTAGGGT CCTGGGTNTC TTGCATTTAT ATGTCAGAAA AGGGGCGATA TGCTGCTGAG 60
GGGTGAGTGC ATATAANTNT GGCCCTGAGG ACCAGGGCTG GCAGATNTTG TCTACCTGCT 120
GAAGAATAAA ANATTTCTTT TGGTAAA 147

SEQ ID NO:3304

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03877

SEQUENCE DESCRIPTION:

GATCTNACCC CCAGCATGAT TGTATTTCTT TCCCCTCCAG TCAAACCGTA ATACAGTTTC 60
CAGAAAATTC GACAGTCTGC AATGCCAAAA GGGTAAAAAT CTGTATTTCA CAGTTGTATA 120
GAATAAAGGC TTAGTTAAA ATATTTCAAA 150

SEQ ID NO:3305

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03878

SEQUENCE DESCRIPTION:

GATCTAAAAA TAACTGTAAT TATTTAAATG ACTAANAGGA AAGTACATTT TTAAAAATNC 60
TGAAAATTGC CTTNNTGTGT TTATNCAAAAC TGAAAAGCTG AGACCAAGAG CAAGGAAGGT 120
AAAANGTTAA CAGGCAAACA TTTNCN 146

SEQ ID NO:3306

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03879

SEQUENCE DESCRIPTION:

GATCCTCACC AACCTAAGCA AGAGGAAGTG CCCCTCTCAA CCTGTGCGGG NTGCTGCGTC 60

CCAGGACTGA GACGCAGGCC AGCCCCGGCC CCTAGCCCTC AGGCCTTCTT TTTATCCAA 120
ATAAATATTT CTTAATAAGG AAA 143

SEQ ID NO:3307

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03880

SEQUENCE DESCRIPTION:

GATCAACAAG AGCACTGTAC TCCTGGCAAT NATTACATAT GTNAGAACAT GGATTTTGCA 60
CTGTAGACAA CATTAAACAC CAGTCTATGG GGTACTGCAT TGCTTTTNAT AAAGTTCAAA 120
ATAAAGATTT ATTTTCAAAC AAA 143

SEQ ID NO:3308

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03881

SEQUENCE DESCRIPTION:

GATCCCTTTA CTGGAGCCCA GTATGTGCTG TGTGAGTTAG AAGTCATTCT TGCTGAGAAG 60
GTGAATAGGT AGGGATTTGC CTTGTTTTGT AAGTCTACAA TTTGCCAAGA GTAAATAACA 120
CTGGACCAGC TGTA AAAAGTA AA 142

SEQ ID NO:3309

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03882

SEQUENCE DESCRIPTION:

GATCTGCACA TTAAATCGTG GCTGTTTCTG TATAGCCTAT ACTGCATTAG CCNAAGANAT 60
TGTTGCTTTG TAACTTTTTG CACTATTGTT TTGGCTGGAT TTGTATTACA CACAGTTTTA 120
AAAAAAACAA TTCCACACTA AA 142

SEQ ID NO:3310

LENGTH:141

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03883

SEQUENCE DESCRIPTION:

GATCCCTAAG CCCCCAGCT GTAAATAGGC TGTGGCCAGT GCCTGGTCAT NAGAAGAGNG 60
AGGAGGAGCC CAGGCGTCTG TTTATGTATT TATTTATTTA TTTATTATAC CTATTAATAA 120
AAAAGGTGCT CAGCCTCCAA A 141

SEQ ID NO:3311

LENGTH:139

01116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03884

SEQUENCE DESCRIPTION:

GATCTTGGCC TTCGCAGTGC CCAGTGATGG CATTACTCTG CACTATAGCC ATTNCCCCA 60
ACTTAAGTTT AGAAATNACA AGTTTCAGTA ATAGCTGAAC CTGTTCAAAA TGTTAATAAA 120
GGTTTCGTTG CATGGTAAA 139

SEQ ID NO:3312

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03885

SEQUENCE DESCRIPTION:

GATCTGGAAG ACAAGTAACA TCTTCCTTTT NTTGGTGCTC GCCTGCCGTG CTCTAGGTGC 60
TTTtagagAT GCTGGTCTGT GTGCTAGGGA AGCGATGAAC CATACTGTTA GTCTATTAAA 120
CATAACTCAA CCTGGAAG 138

SEQ ID NO:3313

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03886

SEQUENCE DESCRIPTION:

GATCTATCTC TGTGTCCAAG TCTCCTCTTT TTATAAGGAA ACCAGTCATA ATGGACCCAC 60
CTGAATNACC TCATTTTAAC TTGATTACCT CTGTAAAAAA TGTATTTCCA AATAAAGTGA 120
CCTTATGAGG TATTGAAA 138

SEQ ID NO:3314

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03887

SEQUENCE DESCRIPTION:

GATCAACAAA TCTCCTAGGC CTNTNACCAC ATACATTTAC ACCNACTACC NCAACTATCC 60
ATAAATCTAA GTATAGCCAT TCCACTATNA GCTGGAGCCG TAATTACAGG CTTCCGACAC 120
AAACTAAAAA GCTAAA 136

SEQ ID NO:3315

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03888

SEQUENCE DESCRIPTION:

GATCCACCT TCAACACCTT ACAAGTAAAG CCAATGAAGN ACAGTTGAAA CATGCAAAAT 60

ATGGNGCTTT TCATGTAATT ACTCTTTTAC TGTTTACCAT TCACTATAAT TCACAATTAA 120
AATTGTGTGN CTANACAAA 139

SEQ ID NO:3316

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03889

SEQUENCE DESCRIPTION:

GATCTGTGTA GTTAATGTAT TTATTAATGC TTGACTTTTA AAATCCTGGG CATAAATAGT 60
GCAGAGCCTC GTATGTTTGT CAGTTCATGC CGAGATGAAA TAAATCACGC AGAAAGTGCC 120
AGTCCTCCTG AAA 133

SEQ ID NO:3317

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03890

SEQUENCE DESCRIPTION:

GATCTGTGGA GTGTGTGTTT CAAAGAGAGA ACTACAGAAA TTTAAAGCA GGAAAACCTG 60
AATGTNATGT GCACATTTTC ATCCCACATG GACAATGTAT GTGTTTAAAT AAATGGAATT 120
TTCAGATTCA AA 132

SEQ ID NO:3318

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03891

SEQUENCE DESCRIPTION:

GATCAAATGT GGGCCCGTTT TTGGCCGCCG CCGCCCTGCC CCGTCCCTNC GGCCACCACC 60
TAATTANTTG CCGTGCTTCC TGCTGCTGTA ACTGCTTTNT TACCTTTCCA ATAAAGANTT 120
TCTTGTTTA AA 132

SEQ ID NO:3319

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03892

SEQUENCE DESCRIPTION:

GATCATTATT ATTGTAATAG TCTCATGTTT AAATGGGATT ATATAATGAN AACAGTTTAA 60
AGAAAATNAT AATCTTATAT NTCAAATGTG GATGCATATA ACCTGTNAGT GAAAAANCAC 120
TGANTGATTT AN 132

SEQ ID NO:3320

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03893

SEQUENCE DESCRIPTION:

GATCATATTG CTGTAAC TTC TTTAAGTAG TTGATGTGGA AAACATTTTA AAGTGAATTT 60
NTCAAAATNC TGGTTTTGTG TTTTATCCAA CTTTGTGCA TATATATAAA GTATGTCATG 120
GCATGGTTAA A 131

SEQ ID NO:3321

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03894

SEQUENCE DESCRIPTION:

GATCCTCAGT GTAGTTCTGA AACTAAGACT ATAGATATTT NNTTCTTTT AATTTCTCTT 60
TATACTAAAG AATCCAGAGT TGCTACAATA AAATAAGGGG AATAATAAAC TTGAGAGTGA 120
ATAACCATAA A 131

SEQ ID NO:3322

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03895

SEQUENCE DESCRIPTION:

GATCTTAGAG TTTGCACAGC TTAATAAAT GGAAATATTG GAATCTGAAT CCAAACAGC 60
CTGACTCAAA ACAATGTNCT TNCCATTATG CAAGGGAAAA AAAAAANGGT TGGGTNTCAG 120
NGNGAGGGTA N 131

SEQ ID NO:3323

LENGTH:433

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03896

SEQUENCE DESCRIPTION:

GATCATAGTC TTAGGAGTTC ATTTAAACCA TAGGAAC TTT TCACTTATCT CATGTTAGCT 60
GTACCAGTCA GTGATTAAGT AGAACTACAA GTTGATAGG CTTTATTGTT TATTGCTGGT 120
TTATGACCTT AATAAAGTGT AATTNTGTAT TACCAGCAGG GTGTTTTTAA CTGTGACTAT 180
TGTATAAAC CAAATCTTGA TATCCAGAAG CACATGANGT TTGCAACTTT CCACCCTGCC 240
CATTTTTGTA AAAGTGCAGT CATCTTGGAC CTTTTAAAC ACAAATTTTA AACTCAACCA 300
AGCTGTGATA AGTGAATGG TTAAGTTTA TACTGTGGGT ATGTTTTTGN NTTACAGCAG 360
GTTAATGCTT TCTTTTTCCA GGTCGNCCTT TGAGGATTNA GGGAAAATTA NATAACTCTT 420
TGTACAGTTC AAA 433

SEQ ID NO:3324

LENGTH:129

01119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03897

SEQUENCE DESCRIPTION:

GATCCACCCA CCTCGGCCTC CCAAAGTGCT GGGATTATAG GTGNNAGCCA CCGCGCCGGG 60
CCGGTTGCTG GCATCTTAAT GTTCTGTAGG TGGAATATTT CCAATAAACA CAAGGTGCCG 120
TAATTGAAA 129

SEQ ID NO:3325

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03898

SEQUENCE DESCRIPTION:

GATCTGGTAA ACTTNNAATC AATTAAATTA ATGCANCAAT AGATTATNAA TATTAAGTGA 60
CCATTTAAGT TTTTNAATAA GTTTTTTACA AAGAAAAGTT AAACATTAAA AAGAATTACA 120
GCTTTCAAA 129

SEQ ID NO:3326

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03899

SEQUENCE DESCRIPTION:

GATCTGGAAG TTTTAAATC AGTTAAATTG TGCAGCAATA GATTTTAAAC TTAACTGAC 60
CATTTAAGTT TTTNAATAAG TTTTTTACAA AGAAAAGTT AACATTAAAA AGAATTACAG 120
CTTTCAAA 128

SEQ ID NO:3327

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03900

SEQUENCE DESCRIPTION:

GATCCTGTAG TGCCTCTATA GAAGTACCCA CAGAAAGTAA AGTATCACAT TTATAAATAC 60
CAAAGATGTA ACAATTTTAA AATTTTNTAG ATTACTCCAA TAAAGTGTTT TAAGTTTTC 120
TATGAAA 127

SEQ ID NO:3328

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03901

SEQUENCE DESCRIPTION:

GATCCATCGC GATACTATGT GTGCATTATT TGAAAGTTAT TGGAATTTT ATTCAAACCG 60

TGGAACAAAT GTATGTNATT TTTTATACT TCTTAATTTA AATAAAATAT TTAATGCACT 120
ATTAAATAA A 131

SEQ ID NO:3329

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03902

SEQUENCE DESCRIPTION:

GATCAGCCCT TTGTACAGAA AAATGTGTCT ATAAAAATTA TGTGTTATTT AATTCTGATA 60
CTTTTTGGCT TGTAATAGC TTCTTGAAC TTTTACAATA AAAATGTTTT AGAACTGTT 120
AAA 123

SEQ ID NO:3330

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03903

SEQUENCE DESCRIPTION:

GATCATGACC GGAACATGGN CTGGGTTTCC ACCCAGCTCC AGGCCACATG CAATGTCCAC 60
AAGTNTGCCT TCAATNACTG GTTCAGTGGA CACCTCAACT TCCAGATTGA GCACCATCTN 120
NNN 123

SEQ ID NO:3331

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03904

SEQUENCE DESCRIPTION:

GATCGATTCA ATGCCCAGATG CTTCTGTTTC ATTCCCGACC CTTTCTACTA TGCATTTCCC 60
TTTTATCAGG TGTATAAGT TAAATACTGT GTATTTATCA CTAAAAAGTA CATGAACTTA 120
AGNGNAACT AAGCCTTTCG TGTTTTTCCA NAGGNCNGCN NGGCTTCTNT GTACAGTTGG 180
AATAACAGA CAGCAAAATG GTAAA 205

SEQ ID NO:3332

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03905

SEQUENCE DESCRIPTION:

GATCCTCAGG CGGCCCCAC CAGGGCACAC CCTACTGTCC TTGTGCCTCA CGCCCCCTCC 60
TCATCCTGCA CCCCTTCCAT CCCACCTTCC CTTTCAATAA ACAGCTGGGA TGGATACTGA 120
AA 122

SEQ ID NO:3333

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03906

SEQUENCE DESCRIPTION:

GATCTGATTT TTTCCCCCTT TACCTAGCTG TGCCCCCTCT GGTTATNTAT TTCCTTAGTG 60
CCAGGAGGGC ACAGCAGGGG AGCCCTGATT TTAAATAAAT CCGGAATTGT ATTTATTAAA 120

SEQ ID NO:3334

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03907

SEQUENCE DESCRIPTION:

GATCACCAGT GCATCCTTCA TCACAGCATG TGCAATATGC CAAGATTACC CTCGGTCATT 60
CCTGTCAACA AGGGGTCAAT GTCATAAATG TCACAATAAA ACAATCTCTT CTTTTTAAA 119

SEQ ID NO:3335

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03908

SEQUENCE DESCRIPTION:

GATCCATGAG GAAAAGATGC TCTCCACCT AAGGCCAGGA ATCTGAGAGC AGGACTGGCT 60
GAGCTCCCAG GGCAAGGGGT TCACTAATGC TTATCAATAA AGAATATTGA GCCTGGAAA 119

SEQ ID NO:3336

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03909

SEQUENCE DESCRIPTION:

GATCAGATTG CATGTNACTC TNAAGCTGAC GAACTTCCAT GGCCCTCATT AATGACACTT 60
GTCCCCAAAT CCGAACCTCC TCTGTNAAGC ATTCGAGACA GAACCTTGTT ATTTCTCAGA 120
CTTTGGAAAA TGCATTGTAT CGATGTTATG TAAAAGGCCA AACCTCTGTT CAGTGNNNNT 180
AGTTACTCCA GTGCCAACAA TCCTAGTGCT TTCCTTTTNN AAAAATGCAA ATCCTATGTG 240
NTTTTAACTC TGTCTNCACC TGATTCAACT AAA 273

SEQ ID NO:3337

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03910

SEQUENCE DESCRIPTION:

GATCACCATG AACAAAGNTA TATTTCTAT TTATTTATTA TATGTGCACT TCAAGAAGTC 60

ACTGTCAGAG AAATAAGNN TTGTCTAAAT GTCATGTTGG AGATNCCTTT GCATNCTTN 119

SEQ ID NO:3338

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03911

SEQUENCE DESCRIPTION:

GATCAGGACT TCAAGGGCCA GACCACAGAC TACTTATAGG AGCATCTTCA AGGCGGTCAC 60

AGTGAAAACC TTGAAATGGC CTTTTTNAAT ATATATAANT AANTGTNAAT ATTATTNN 118

SEQ ID NO:3339

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03912

SEQUENCE DESCRIPTION:

GATCCAAATN ATGGCCACAG ATGAACTTCC ATGCAAGCNA TGGCTGAGTT TCATTGCTTA 60

AAATNCTCCT CTGTTTAGAG GGGCCTGGTA GAAATAAAAA CCCACCCTAT ATCTTAAA 118

SEQ ID NO:3340

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03913

SEQUENCE DESCRIPTION:

GATCCTCCTG GCCGCCCGC AGGTCTNTGG AAGGGCTGGA CGGCAAGTCC GTNTAGCTCA 60

CGGGCCCCCTC CAGTGGAATG GNTCTTTCCG GTGGAGATAA AAGTTGATT NCTCTAAA 118

SEQ ID NO:3341

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03914

SEQUENCE DESCRIPTION:

GATCCCAGGT GCGTGTNTCT CTGTCTCTCC TAGCCCCTCT CTCACACATC ACATTCCCAT 60

GGTGGCCTCA AGAAAGGCCC GGAAGCGCCA GGCTGGAGAT ANCAGNCTCT TNCCCGTCGG 120

CCCTGCGTCG GCCCTGGGGT ACCATGTGGC CACAACTGCT GTGGCCCCCT GTCCNNAAGA 180

CACTTCCCCT TGTNTCCCTG GTTGCCTCTC TTGCCCTTG TCCTGAAGCC CAGCGACACA 240

GAAGGGNGNG GGGCGGGTCT ATGGGGGAGA ANGGGAGCGA GNTCAAGAGG TGGGCATGGG 300

TTTGNAAGG GTNGCGGTTT GGGGGGCCTN TNATGNTGGC TTTTCAANC N 351

SEQ ID NO:3342

LENGTH:117

TYPE:nucleic acid

01123

TOPOLOGY:linear

CLONE:HUMGS03915

SEQUENCE DESCRIPTION:

GATCATGCCG CTGCACTCCA ACCTGGGCAG CAGTGCAAGA CTCTGTCTCA AAAGGGGAAA 60
AAAAAAAANT TNCTGATGTG NCCCATGAAG GGACCTCATT TNCCTCGNAA TTTTGGN 117

SEQ ID NO:3343

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03916

SEQUENCE DESCRIPTION:

GATCGGCCGT ACCAGCCGCC CCGCCCGCCG GTGGGCGCTC TCGGACTACT CGCTGTACTT 60
GCCGCTCTGA GTCAGTGGCC CCTTCGTTCC TTGTAAATAA ATCCCGCCCC CGGAAA 116

SEQ ID NO:3344

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03917

SEQUENCE DESCRIPTION:

GATCCAGACA AGTGGGAGAG CCCGTGGGGG CAGGGGACCT GGAGCTGCCA GCACCAAGCG 60
TGATTCCTGC TGCCTGTATT CTCTATTCCA ATAAAGCAGA GTTTGACACC GTCAAA 116

SEQ ID NO:3345

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03918

SEQUENCE DESCRIPTION:

GATCTCATAA GAAATGTAAT ATGTAAATAA TATCTTGCTT TATGTTGTAA AATATACATT 60
GTTTGCNCTA GAATAGAAAT AATTTCTTTT CAATAAAAAG AAAGAAGGAC TCTAAA 116

SEQ ID NO:3346

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03919

SEQUENCE DESCRIPTION:

GATCGTTGTG TTGTTATTTT ACTGCACTTT TTACTTTTTT NCGTGTGGAG CTGTATTCCC 60
GAGACCAACG AAGCGTTGGG ATACTTCATT AAATGTAGCG ACTGTCAACA GCGAAA 116

SEQ ID NO:3347

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03920

SEQUENCE DESCRIPTION:

GATCAAGGCC AAATAACCCG ATTTGGTTTG GGCACCTCAAG CAATAGTAAA GCCTGTAAGA 60
CATGATAGGA TTATNTTCCC CTTTGGATT AAATNTAATA TAGCAGTTGG ATTAAA 116

SEQ ID NO:3348

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03921

SEQUENCE DESCRIPTION:

GATCCTGTAG ACCCTTTCTT TTGGCCAATT TCCCCCTTTT TGGGATGGAA ACATTTACCC 60
AATCCCTATA CCCCATTGT ATCTTGAAG TAAATAATT GTTTTGTATT TAAA 115

SEQ ID NO:3349

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03922

SEQUENCE DESCRIPTION:

GATCTCTTCA CTGTNAAAAG TTGCCCCGGT GCAGCGCCTT TCCCTTCTAN CATGGGAAAT 60
GCAGGCTGGG CCCTTGGGNT NAGCCTGCGG GGCTCTGGTG CTGTCCCCGA CCCNN 115

SEQ ID NO:3350

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03923

SEQUENCE DESCRIPTION:

GATCCACTGT TTGCAGCAGA ATTATATATA TGTATAGGAA AAATCCACTT TGAATAATCC 60
ATGTTTTGTA TTTGGAAATT GTTTTAAAA ATAAAAAGGA AAGGAAATAT AAA 113

SEQ ID NO:3351

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03924

SEQUENCE DESCRIPTION:

GATCTAGGCA GTGGGTAAAG CCAGACCCCT AAAAGTGACC CTTTCCTCTT CTGCCCTATT 60
CTNCTNAGAC CCTCAGAAAG NNNTCCAATT TTTTAAATC CCTGTAGCTC CAN 113

SEQ ID NO:3352

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03925

SEQUENCE DESCRIPTION:

GATCTGATGA ATGGGTTTT GAATCCCAGA AANGGTCTGC CATGGAGTTG GCAGTCATCA 60
CGGTAGATGG CGTATGATTT TCCTGAATTT TAAATAAAAT GAAAACCATA AATTAAA 117

SEQ ID NO:3353

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03926

SEQUENCE DESCRIPTION:

GATCAGAGCT GTTAGGTAAA GGCCTAACCA CCTCCCTGCA GNCTCTTAAN TCTCAAGCTT 60
TAGGAACCCA TTTCTAAANG TACACTAGCG GAGANTTTAT ATTGTCAGCC NN 112

SEQ ID NO:3354

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03927

SEQUENCE DESCRIPTION:

GATCACGGTA CGTCCATAAA GCCAGTATTA CACTTAAATN NAGTATTCTT TTTTGTAATC 60
GTTTTTTTGA GAAGGTAAAC AAATTTAATA AAGCTACCAA TAATGTTGAA A 111

SEQ ID NO:3355

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03928

SEQUENCE DESCRIPTION:

GATCTAGAAA NTGCCCTCCT TATACCCCTA CCATGAGCCC TACAAACAAA AACCTGCCA 60
CTAATAGTAT GGTCATCCCT CTNANTAAAN CATCATCCTG GCCCTAAGGN N 111

SEQ ID NO:3356

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03929

SEQUENCE DESCRIPTION:

GATCTTTGCA ATTNAAAGNT TAGCCACGTG GCTTGCTTCA GCNAGTAATG TGAATGGAAA 60
TAACGTGTAT CANTGCTGGA TAGAAAACCT AANAGCCAAC ACATGGTTC N 111

SEQ ID NO:3357

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03930

SEQUENCE DESCRIPTION:

GATCCCGTAG AATATATATT TAATAATCCC ACAAACGGAG GCCAGACTTC TCGGTAACT 60
TCAGTAACAC AAGCTTCTTT AAGCCAAATA CATCACTTGC CACTACCAA 110

SEQ ID NO:3358

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03931

SEQUENCE DESCRIPTION:

GATCTCCGTG GTGGTCGTGG GCCGCCAGGT GAATNANCCC CACATCCGCN TCCTGGTCAC 60
CGGCAAGACG GCCGAGTACG ACGTGGCCTA CGGCGAGAGC ACCTNTNCCN 110

SEQ ID NO:3359

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03932

SEQUENCE DESCRIPTION:

GATCCTTCGA AGCACTCAGT TCACTCTTCC CCACCACAGT GGTTAAAAGG CGTTTGTATC 60
TGCCACTATG TGTGTGTTTT AAAATAANCT TTTGGAAACA TGTTTGNGN GNAAA 115

SEQ ID NO:3360

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03933

SEQUENCE DESCRIPTION:

GATCCACTAA TGTAGCTTAA GGTTATTAGN TTTGGGCTTT TAATCATGGN ATAATCTTAT 60
GTATTGGTGT AAGAGTTGAT GAATGACTTT AGCTGTGTGA ATATATAATA GTCAAAGTGC 120
AAACATTTTG CATCCCTTTT GTGACCTAAT TTACAGNCAT TTAAATTGTG TTGCAGTTCT 180
GCTTTGCCGT TTAATAAAAA GCTATTTTCAG NAAA 214

SEQ ID NO:3361

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03934

SEQUENCE DESCRIPTION:

GATCANAGAT TTCAATNACA GTGCAGGAAA GCAGCACTGA GAAACTTTTA ATTGTNTTNA 60
ATTTCTNCTT TAATGTTTAC ACCACCACAT TCCCATTCAC TTAAATTTN 110

SEQ ID NO:3362

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03935

SEQUENCE DESCRIPTION:

GATCTTCCCC TGACCTGCTC CCAGGGCTAT AACAGATACG GACTTTGAAA CTGTATGGAG 60
TATAGAGCAG TGCTCTATAA TTAAAAATAT ACATATATTG CAACCAAA 108

SEQ ID NO:3363

LENGTH:363

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03936

SEQUENCE DESCRIPTION:

GATCTTCAGC TTGGTAGATT TAATTGCCCA GTGAATGGCA CTTACGTTTT CATTTNNAC 60
ATGCTAAAGC TGGCAGTGAA TGTNCCACTG TATGTCAACC TCATGAAGAA TGAAGAGGTC 120
TTGGTATCAG CCTATGCCAA TNATGGTGCT CCAGACCATG AAAGTGTAG CAATCATGCA 180
ATTCTTCAGC TCTTCAGGG AGGCCAGATA TGGTTACGNC TGCACAGGGG AGCAATTTNT 240
GGAAGTAGCT GGGAAATATT CTACGGTTTC AGGCTATCTN CTTTATCAA GGTGGAATG 300
TCAGTNCAGT NTTTGACNAC TAAAAGGNNT NGGGGTNCTA ATTANGTNGG GTTGAAGGG 360
TAN 363

SEQ ID NO:3364

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03937

SEQUENCE DESCRIPTION:

GATCTGGGGA GTNTNAGGAG AGGGTGGCAT CAGNAGCTGC TCAGGCTTGG CGGAGGGAGC 60
GGCATGGCCG ATGTCACTCA GCCCCTTCCC GGTCCGCCN NTTCCN 106

SEQ ID NO:3365

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03938

SEQUENCE DESCRIPTION:

GATCGTTTTT TCCAGAGTCG CGGGGACACA GGAGTNTTCC TACAGTACAT NCACGCCCGC 60
NTCCACAGTT TGGAAGAGAC TTTTGATGT GGGTACNTGA NTGAN 105

SEQ ID NO:3366

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03939

SEQUENCE DESCRIPTION:

GATCATCTAA AAAATGCCAT GANTGGAAAT NCGAAGGCC AGACACCAAT ATTCNTAGA 60
AGTAAACAGC TCAAAGACAC TCTCCTATCT NAGGAAATNA ATGTN 105

SEQ ID NO:3367

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03940

SEQUENCE DESCRIPTION:

GATCCAGTGG GGTCCGGACA CTGGGCCCCG CAGCGAAAGC ACGNTCCAGC CACCAGGAGG 60
CCACCTATTN TTTCAAATA AAGACTGCGT TCCTCTCTTG GAAA 104

SEQ ID NO:3368

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03941

SEQUENCE DESCRIPTION:

GATCAAAAA GAAGAGTTAA AACAACACAT GTAAATNCCT TTTAATATTT NATGGGAATG 60
CCTCTCATTT AAAAATAGAA ATAAAGCATT TTGTAAAAA GAAA 104

SEQ ID NO:3369

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03942

SEQUENCE DESCRIPTION:

GATCCTTTAT CTTTCCATAT GGCACACGTA AGAAAGTGTT TTTCTACTAT TAATATTAAA 60
TTAAAACCTT TACTTNTGTA TAATAATNA AAACCTCAGAA TAAA 104

SEQ ID NO:3370

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03943

SEQUENCE DESCRIPTION:

GATCTGGAAG AGGCTTGTA CCTGAACTAN TATGTAGGAA GGCAGTACNA NCAGCCCACC 60
AGTGTAATCT CCCTGNATTA AGGCATTCTT AAAAATTAG GCNN 104

SEQ ID NO:3371

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03944

SEQUENCE DESCRIPTION:

GATCCGCTCT GGTCAAACCC TTCCAGGCCA GCCAGAGTGG GGATGGTCNN TNACCTGCTG 60
GGAAGGCANN CTGATGGGGC ACACCCTTGG CCTCTCGTCC ACGN 104

SEQ ID NO:3372

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03945

SEQUENCE DESCRIPTION:

GATCAAAATT TNTTGATAAT TAAAAATTG TGTGTGATTT TNAATTTNA AGAAATTGCT 60
GAAAACTTAG AAAAATATAA TGGTATACAT ACAATAGNNA AA 102

SEQ ID NO:3373

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03946

SEQUENCE DESCRIPTION:

GATCAATAAT TAAATGTAA CTAGTTGGGA TTTTATAGTT AAAATNATAT TTGTGTATAT 60
AACATAACTA ATCTGTAAAT NGTAATAAAT ATATTNCAA TTAAA 105

SEQ ID NO:3374

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03947

SEQUENCE DESCRIPTION:

GATCATTTAG TACTTTTGTN TTCTCCCATG TGCTTGAAGG AAAAATAAAG TGTCACTACC 60
GTATTTNTTG TTTTCATCAA AAAATAAAAA TAATTTAAA 99

SEQ ID NO:3375

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03948

SEQUENCE DESCRIPTION:

GATCTTTAGC ACAGTGATAT NACCATGACT TCACAGACAT GGTCTAGAAT CTGTACCCTT 60
ACCCACATAT GAAGAATAAA ATTGATTAAA GGTAAA 97

SEQ ID NO:3376

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03949

SEQUENCE DESCRIPTION:

GATCAATAAT AATNAGGAAA GCATGATATG TATATTGCTG AGTTGAAAGC ACTTATTGGA 60
 AAANATTAAA AGGCTAACAT TAAAAGACTA AAGGAAA 97

SEQ ID NO:3377

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03951

SEQUENCE DESCRIPTION:

GATCCCCCTC CTTCCCCCTC TCCCCATTGT ATTTATTTGC CTGCTGGAAA ATNACATCCG 60
 GAAATAAAAT AGAAATATGT CTTTNNATTT TAAA 94

SEQ ID NO:3378

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03952

SEQUENCE DESCRIPTION:

GATCCTAAAC TTTTGGATA ATCTTTTATA TTTNTAACCT TTGAATTTAA TCATTGTNCT 60
 NAGATTAAAA TAAAAATGC TATTGAACT AAA 93

SEQ ID NO:3379

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03954

SEQUENCE DESCRIPTION:

GATCTGGAAA TCCCTGCTGT AATCTTTTTA AGGGAATCCA CTGGAAATAA TTAGTTTTTG 60
 TTTTAAATAA AACCATTCCT TACTTAACAA A 91

SEQ ID NO:3380

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03955

SEQUENCE DESCRIPTION:

GATCTATGGC CTCTGGTGTG TTGTCCTGTA TTTGGTTTAA TTTTTTTGTC CTAATCTCTT 60
 CAATCAATAA AATTGTGCGT ATTTAACTAA A 91

SEQ ID NO:3381

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03956

SEQUENCE DESCRIPTION:

GATCAACTNA ATGTTTAAGA CTTTAGATGT CTTGTATTAA AAATTACACA AAAAAAGTAA 60
AACTTTTAT ACTTACCCTT TTAACCTAA A 91

SEQ ID NO:3382

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03958

SEQUENCE DESCRIPTION:

GATCTCTGTA ATNTTATNTA GAGTTTGAGC TGAAGCCCCG TATATCTAAT NTATTTTGT 60
AAACATGAAA GTGCATCCTT TCCCTCCAAN 90

SEQ ID NO:3383

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03959

SEQUENCE DESCRIPTION:

GATCATACCT ATTAATAA TGCCAAACAC CAAATATGAA TTTNATGATG TACACTTGT 60
GCTTGGCATT AAAAGAAAAA AACACAAA 88

SEQ ID NO:3384

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03960

SEQUENCE DESCRIPTION:

GATCAAGAAG ACGNNTAAGG GAAGAACGTA CACAGTGAAA ANCCAAAAAA AGAAAAAAT 60
GTTTATACAA CCCTAAGTCA ATAACCTN 88

SEQ ID NO:3385

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03961

SEQUENCE DESCRIPTION:

GATCTAGGCA CACCTNGCTC TTNGCTGCAT GTGGTTATNA ACANCTTCCA GTGGAAGTCG 60
AATAAACAGT TTTTGGTAAA TCTCAA 87

SEQ ID NO:3386

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03962

SEQUENCE DESCRIPTION:

GATCCTGCCC TGAATCTCCA TAGTCTCCAC TGTGAACTGA GGAGGGGAGG GGTGTGCTGG 60
GGAATAAATC TTGTATGAGA ACAA 85

SEQ ID NO:3387

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03963

SEQUENCE DESCRIPTION:

GATCCATTTA NAGGCCAAAT NTCATTCTGC AGGTGCCTTC CCGATGGATT AAAGGTGCTT 60
ATNTTTTTTT AAGTTTNAAG TAAA 84

SEQ ID NO:3388

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03964

SEQUENCE DESCRIPTION:

GATCGTGTTT ATTTTGNITT CCGATTCTAG ATATAAGTTT TGNATGGGCA GGAAGACTAA 60
AATAAAAGTT TTTAAGGTAA A 81

SEQ ID NO:3389

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03965

SEQUENCE DESCRIPTION:

GATCTCCAGA TGTAATTTCC CCTCTTTAAT TTAAANTAAT NTAAAGATTA CTAAAACAAT 60
AAAANCTCCT AAAAANTCAA A 81

SEQ ID NO:3390

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03966

SEQUENCE DESCRIPTION:

GATCTTTCTT TCCAAAACAT TTCTGGACAG TACCTGATTG TATTTTTTTT TTAAAATAA 60
AAGCACAAGT ACTTTNGNGN TTGTAAA 88

SEQ ID NO:3391

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03967

SEQUENCE DESCRIPTION:

GATCCCCCA CAGCCCTGG TCAGTCTGCC CTTGCTACTG GTCTGAGGTC ATTAAAATTA 60
CATTGAGGTT CCTAAA 76

SEQ ID NO:3392

LENGTH:78

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03968

SEQUENCE DESCRIPTION:

GATCACAATC ATTTTGAATC CCTCTTCCTC ACTTTTTTTT CTAAGAAAAT AAACATTTTA 60
CTGTTTTTAT GGAATAAA 78

SEQ ID NO:3393

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03969

SEQUENCE DESCRIPTION:

GATCACAGCT GACATTTACA AAATATTTTT NTACCTTAGA ATTTCTGCAT TAAATAAAAT 60
ATTTTGTTTT AAA 73

SEQ ID NO:3394

LENGTH:68

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03971

SEQUENCE DESCRIPTION:

GATCTTTTGC TAATGCAATT AGNATTATGT TTTGCATGTA TGACTTAATA AATCCTTGAA 60
TCATAAAA 68

SEQ ID NO:3395

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03972

SEQUENCE DESCRIPTION:

GATCCTCTAA ATNTGGAATT TTGATGTAAT AACTGCTAAT AAAATNATAT TGAAACTGTT 60
TTATAAA 67

SEQ ID NO:3396

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03973

SEQUENCE DESCRIPTION:

GATCAAAGCC CGGAAAGGCA AATGAAGCNT CATGTGTAGT GTAATAAAGN TGTCTGCTGT 60
TCAA 65

SEQ ID NO:3397

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03974

SEQUENCE DESCRIPTION:

GATCGAAGCC TGTGTAAAT GCTACCAAAT GGCAAAAAGC AACAATAAAC AGTTTGATT 60
TTAA 65

SEQ ID NO:3398

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03975

SEQUENCE DESCRIPTION:

GATCCCCAAT ATATCTACCA TTGTATGTTA AATAAATNAC CATTTTTGTA GAAAAAATTC 60
TAA 64

SEQ ID NO:3399

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03976

SEQUENCE DESCRIPTION:

GATCTGTAAA TNACTTTAAA AGCTATTTTA GTAATTTAAA TAAATTTACT TTCTTGTTT 60
ATACTCTCAA A 71

SEQ ID NO:3400

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03977

SEQUENCE DESCRIPTION:

GATCTCTATA NTTTTTTTAA AATTTTCTCC AGCCTGGGTG ACAGAGCGAN ACTCCGTCTC 60
AAA 63

SEQ ID NO:3401

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03978

SEQUENCE DESCRIPTION:

GATCTCCTGC TGCCTTCCT GGAGTTTGTA AAATTNTNCC TGAATACAAG CCTATGCGTG 60
AAA 63

SEQ ID NO:3402

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03979

SEQUENCE DESCRIPTION:

GATCCAAGCA TAGTAGAAAA GCTTCATGTG TTTTAAAAA TAAACAATAA CAAAAAATTA 60
AA 62

SEQ ID NO:3403

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03980

SEQUENCE DESCRIPTION:

GATCATGTGT TCTGGAGAGT GTTCTTTATT CAATAAAGTT TTAATTTAGT ATAAACATAA 60
A 61

SEQ ID NO:3404

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03981

SEQUENCE DESCRIPTION:

GATCTAATTT TTCAAACCTT CACTATTTTG AAAATATAAC CAAGGCCGGT TGCGGTGGAA 60
A 61

SEQ ID NO:3405

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03982

SEQUENCE DESCRIPTION:

GATCATGAAA CTGATTGTAA AGCTTTTTGA CAACTAATAA ATGTCTTGGT AATTGCTAAA 60

SEQ ID NO:3406

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03984

SEQUENCE DESCRIPTION:

GATCAATGGA TTTGTTTACA ATGTGATATT TTCTATTAAA TCCAGTATTT TCAAATAAA 59

SEQ ID NO:3407

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03985

SEQUENCE DESCRIPTION:

GATCTTGTA TAACTTATGA TAGAATGTAT CAGAATAAAT ATTTTAAACA GTGTAA 58

SEQ ID NO:3408

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03986

SEQUENCE DESCRIPTION:

GATCATNAAA GTATACAAAA TAAATAAAGT AGGAGATTTT TTTGCTGTTT AAA 53

SEQ ID NO:3409

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03987

SEQUENCE DESCRIPTION:

GATCTGTTTA GTGAGATTTA GCATGTGTGA ATAAAGTATA TGCAGGAGGA AATTGCTTTG 60

TNTTCCCAAT CGGTAGAAAT TCGGGACCAT AAAAATTGTG TTTTACCATG TGGCCTACAA 120

A 121

SEQ ID NO:3410

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03988

SEQUENCE DESCRIPTION:

GATCATTGTT AAAGGATTGC TGCAAATAAA TACACTTTAA TNTCAGTCAA A 51

SEQ ID NO:3411

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03989

SEQUENCE DESCRIPTION:

GATCTTTAAA ACATTTTAA TGAATAAGT TGAATAAAGG CACAATTA AACTGTCAAA 60

SEQ ID NO:3412

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03993

SEQUENCE DESCRIPTION:

GATCAAACAG AAGCAGCCGT GGGCAAAATA CAATTCATT TAACAAATTG AAA

53

SEQ ID NO:3413

LENGTH:521

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04020

SEQUENCE DESCRIPTION:

GATCTCATAG GACGGAGGGG GAAATGGTTT CCCTCCAAGC TTGGGTTAGT GTGTTANCTG 60
CTTATCAGCT ATTCAGACAT CTCCATGGTT TCTCCATGAA ACTCTGTGGT TTCATCATTC 120
CTTCTTAGTT GACCTGCACA GCTTGGTTAG ACCTAGATTT AACCTAAGG TAAGATGCTG 180
GGGTATAGAA CGCTAAGAAT TTTCCCCAA GGA CTCTTGC TTCCTTAAGC CCTTCTGGCT 240
TCGTTTATGG TCTTCATTAA AAGTATAAGC CTAAC TTTGT CGCTAGTCCT AAGGAGAAAC 300
CTTTAACCAC AAAGTTTTTA TCATTGAAGA CAATATTGAA CAACCCCTA TTTNGTGGGG 360
ATTGAGAAGG GGTGAATAGA GGCTTGAGAC TTTCTTTGT GTGGTAGGNC TTGGAGGAGA 420
AATCCCCTGG NCTTCTACTA ACCCNTNTGG ACATACTNCC CACAACCCAG TTNGATGGGN 480
TTTCCCGTAA TAAAAAGGGN TNGGGNNTTN CCTTTTGTAA A 521

SEQ ID NO:3414

LENGTH:501

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04021

SEQUENCE DESCRIPTION:

GATCAGAAAT NACTGTGTCA TGGTGCTCAT TCACTGCAAA CTCCCAGTTG NAAGTCCTT 60
GGCTCCCCCG GAGGAGCAAG AATCTCATAG TTCAGAGACA CAGAGGGCCT TTTAGCCCTA 120
ATNACCTTTT GGATGGGACT GCAACTCATG ACTATCCTGA TATTGGAAGA AAGGACTTTG 180
TTAATCTTCT CCCCATAGC TCTGCTGCGT AGGTCTACAT CTTACTCAGA ATCACTACAC 240
ATTCCTTTAG TCTTCCTCCA AGCTCCAGAG CCATTGGTAC AAATGCTTTA TTGAAACTAA 300
ATACATANTN NACACAATGA GATGAAGACA ATATAGANGT NCGCATAGTC ATCATAATCC 360
CGTTTCCTTG CCGGTTGAGG CAGCTCAGTG GCTGAGCCCA GTCAAGCCAA CCCGGNAGTT 420
TCACTCACGG CNTTCAAGGN TTTTGATGCT AATTCTTTTG GGTTTCCTAC AGTTTATTAA 480
ATAAGTNGTC TGNGTGGGAA A 501

SEQ ID NO:3415

LENGTH:485

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04022

SEQUENCE DESCRIPTION:

01138

GATCTCAGTG AACTAATACA CAGCTTGAGC GTTTCATGT GCTAATGTTG CACATTTACT 60
 AAAAACTTT GGAAATGGAA AATAATGTAT TAGTGCAACA GTTGATGTGC TTCTTTGGGC 120
 AAAGATATAG TTTTGTTCCT CAATTTGTAC TTAAAAGCGA AAGAACATTG AAAACATAGA 180
 CTTACTGGCT GTAGCAATGC TGGCCTGTTA ACTGATAACT AGAACTTAGG TTCACGTTTA 240
 TGTAAAGTGT GTAAAACCTA GTAGAGCTTG CATAGTCGGG CACTCAGTAA ATGGTTTGGT 300
 TCCTTTTGCC CCTTGGTAAG TTTATTTTAC CCATCCNCCC ACCTGCCCAT TCTGACTTTN 360
 TATTAAAATC ANCCATGTGG GACCCAGNGG TGTTTAATGN GGATGTTATT NCCAGAAGGA 420
 GGATTTGAGA AAAATTTGGG GATTNTCATT GCAGGTTAAC NATTCCAAAA ATNCTTTTGT 480
 GTAAN 485

SEQ ID NO:3416
 LENGTH:471
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS04023

SEQUENCE DESCRIPTION:
 GATCTGTTTT TTCATCGAGG TNTCGAGGTA TNCTTTNAAA GATAGTGANA NGCAGACACT 60
 GCTCCTTGTT CAGCTCTGGT ACCTCCTGCC CACTGCTGTC ACTTCAAGCC ACTGGCAATG 120
 CTTCTGTCCT CGTGTCTTGG AGGAAAATCA CCTGGGGGGA GGGGACTTCT TGTGGTAAGA 180
 GCAAGTGCAG GTATGAAATG CGAAGATTGC CCCAGCTAAA AGTGGACAAG TCCGCTTTGT 240
 GAGATGAATA CTTCTGAGA NNCNNNNCAA GTATCTCTCC ATTTTACCAT TATGAAAAC 300
 ATCATTAAAA AAAACAGTTT AGATGCCTTC TCCTTTTGAG GGAAAAAGGG TGCTTTTAT 360
 TGTATAAAGC AGCGTCTTAT GTATTTTGAT ATACCATTGT TTGAACTTCC GTCTTTAGCT 420
 GATAGATTCT CAAATATCCT NGATTTTGGG ATGTTTCAGTA TGTTTGTGAG N 471

SEQ ID NO:3417
 LENGTH:466
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS04024

SEQUENCE DESCRIPTION:
 GATCAAATAT ATTTCAAGCT ATAAAAGCAG GAGGTTATCT GTGCAGGGGA CTGGCATCAT 60
 GTATTTAGGG GCAAGTAATA ATGGAATGCT ACTAAGATAC TCCATATTCT TACCCGAATC 120
 ACACAGACAG TTTCTGACAG GCGCAACTCC TCCATTTTCC TCCGCGAGGT GAGANCCCTG 180
 TGGAGATGAG TCAGTGCCAT GACTGAGANG GANCCGACCC CTAGTTGAGA GCACCTTGCA 240
 GTTCCCCGAG AACTTTCTGA TTCACAGTCT CATTTTGACA GCATGAANTG TCCTCTTGAA 300
 GCATAGCTTN NNNAATATCT TTTTCCTTCT ACTCCTCCNT CTGACTCTAA GAATTCTCTC 360
 TTTCTGGANT CGCTTGAACC CAGGANGGCG GGAGGTTNCA GTAAGCCAAG GTCANTGCNA 420
 CTGCACTNTT AGCCTTNGGT NANAANTNGA GGTTCATT TNTAAA 466

SEQ ID NO:3418
 LENGTH:464
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS04025

SEQUENCE DESCRIPTION:

GATCGCCAGG CTGATTGAGA AGAACAAGAT GAGTGACGGG AAGAAGGAGG AGCTCCAGAA 60
 GAGCTTAAAC ATCCTGACTG CCTTCCAGAA GAAGGGGGCC GAGAAAGAGG AGCTGTAAAA 120
 AGGCTGTCTG TGATTTTCCA GGGTTTGGTG GGGGTAGGGA GGGGAGAGTT AACCTGCTGG 180
 CTGTGAGTCC CTTGTGGAAT ATAAGGGGGT AGTGGGAAAA GTGGTACTAA CCCACGATTC 240
 TGAGCCCTGA GTATGCCTGG ACATTGATGC TAACATGACC ATGCTTGGGA TGTCTCTAGC 300
 TGGTCTGGGG ATAGCTGGAG CACTTACTCA GGTGGCTGGT GAAATGACAC CTCAGAAGGA 360
 ATNAGTGCTA TAGAGAGGAG GAGAGGAGTG TACTGCCCAG GTCTTTGACA GGTGTAATTC 420
 TCATTcantt AAAGGTTTCA GTGTTTTTGG TTAAGGTGGA TAAA 464

SEQ ID NO:3419

LENGTH:457

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04026

SEQUENCE DESCRIPTION:

GATCACCTTC CTGTCTGGAG GCCAGAGTGA GGAGGAGGCG TCCATCAACC TCAATGCCAT 60
 TAACAAGTGC CCCCTGCTGA AGCCCTGGGC CCTGACCTTC TCCTACGGCC GAGCCCTGCA 120
 GGCTCTGCTG CTGAAGGCCT GGGGCGGGAA GAAGGAGAAC CTGAAGGCTG CGCAGGAGGA 180
 GTATGTCAAG CGAGCCCTGG CCAACAGCCT TGCCTGTNAA GAAAAGTACA CTCCGAGCGG 240
 TCAGGCTGGG GCTGCTGCCA GCNAGTCCCT CTCGTNTCT AACCACGCCT ATTAAGCGGA 300
 GGTGTTCCCA GGNTGCCCC AACANTTCAG GCCCTGCCN NNTNCCAAC TTTTGAAAGA 360
 GGAGGNCGCC TTCTTNGGGG GCTTCCAGGT TNGGNTTNC CCGGGNTTTT TTTTTTCCC 420
 TTGGGTGANA NATGGGTNGT TTNGGNGGCG GTNTTTN 457

SEQ ID NO:3420

LENGTH:452

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04028

SEQUENCE DESCRIPTION:

GATCTGGAGG GGTCAACGGA AGACGGAACA TGTCCACTTC CAGGCCCGAG CTTCTNAGCC 60
 TGCCGTTTGC CACTCTCCAG CATCTGGCCC AGCCTGTCCA TCCTCATCTC TCTTCCTCCN 120
 NNACTCCGTG CTCCCATCAC TNGGAACCAT TTGCATTNT TTGTCTCAGC TATATTGTCT 180
 CACCTCTGAG TTTTGCCCA TGATGTTGGA TGCCATGGAA TGCCATATCN TCCCCATTAT 240
 CTCCCCCTTG TNTGGATAAT TCCTACTCAT CCTACAATAC TGATTTTTAT CTGTGCAAAG 300
 AAGGTCTTCC CCAAGTGGCC TCTGGGTTNG ANAAGGGGNG TTCCTCTGGC TTNTTCCAGA 360
 CTTTTTTGTT TCCTNCAACC AAAAGGCTTT AGGCACCGTG GGGGAAGGAG GGGTNTTNT 420
 TNGTCCNAGG GAAAAAGNNT NGNGGCAAAAT GN 452

SEQ ID NO:3421

LENGTH:450

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04029

SEQUENCE DESCRIPTION:

GATCAAACT AACCTTTCAG CGTATTCTCA GCTATGACAC AGTGGTGCAA ACAACTGGAG 60
 ACTCGTGGCA CATACCATAT GATGAAGACT TGGTAGAAAG ATGTCCTGT GAAGTACCAA 120
 CCAAATGGCT TTGCCTCCAC CAAAAGACAT AGAGATTCTT ACCTCTATGC TAAGTTTGTG 180
 TTTGGGTACC CTCTAGGTTG GCATCAGAGG CTCTTGAGCT GGTGTTTGT TAGGGCATTG 240
 CCTCTGTCCT GAAGATAAAA GGATTNTATT AACAGCATTG ACATTGATTT TTTAATGAAA 300
 TGAGATATAT CTTTTCATAA CCAGCTGCGT TTTTTCCTT TAACATTTGT TTTTGGAGGG 360
 CTTATCAAGA GTTGGAGACC TTAGTGTAGA GCAAAACCTG CATTTCTCCT ACTGGGCCAG 420
 CTATTCCACT TAGGCTTGGG TGACTAANAN 450

SEQ ID NO:3422

LENGTH:444

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04030

SEQUENCE DESCRIPTION:

GATCCCAAGT ATTAGGAGCT ATTTCTTAAA TAGTTTAAAT TTGCCTTTGA AAAAAGTTCC 60
 ATTACTTAAA AGTATTAATT TAAGCAAAAT CATGGAACAC ATTGACTAAA AAATACCTTT 120
 TATTTTTACT CAACTTGTTA AAGGGGCAGA TAAAGACTTT GGCAAATTTG ATTAAGTACA 180
 CAAAATAATG TTATCCAAAC TGAGTAATTT ATTGCTGGTC TGNGGCTTGC CTGTTTACA 240
 CTTAAGTAGA ATTTACGTTG TTTCCACAAA TGGCAGATAT CANCATTTAA AGGNATTTAA 300
 TAGTGACCTA TTCAATAAGG CANTCATCTG GGGTAGCAA CTTTTNTTTA AATCTNACAT 360
 AACCTCAGGC TTTATAANAA NGCCACCATA ATTGGAAAAT TGGGGNTCCT CCCCTCTAAA 420
 NGCCTTAAGG GATTCAAAGG CTCN 444

SEQ ID NO:3423

LENGTH:439

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04031

SEQUENCE DESCRIPTION:

GATCTTGTGA AAATGCTGTT AGTATCCAAC CTAAAAATAT ATTAGTATAT GGGTTTTTAT 60
 TAAAAGAATT ACTTTGAATT TNCTATTTAA TTCATATGTA AATAAAGGAA CATTTCATTT 120
 CACTTAAAAA AATTATATCA GTTATTAGGC TGGGTGCAGT GGCTCATGCC TGTAATCCCA 180
 GCACTTTGGG AGGCCAAGGC GGGTGGATTA CCAGAGTTCG GGAGTTTGAG ACCAGCTTGA 240
 CCAACATGGA GAAACCCCGT CTCTACTAAA ATTACANAAT TNGCCAGGTG TGGTGGCGCA 300
 TGCCTGTAAT CCTGGGCTAC TCAGGAGGCT TGAGGCAGGN GAATNGGNTT GAAAACCCCN 360
 GGGGGNAGA GGTTGCGGTT GAGCTGAGNN TTGCGCCATT NNACTTCCNN CCTGGGCAAG 420
 GNGGGGNGNA ACCTNTNNN 439

SEQ ID NO:3424

LENGTH:437

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04032

SEQUENCE DESCRIPTION:

GATCTAAGAA ATCATGTGCA TATATCTTTC AGATTTCTAT TTTGGGAAAN TGAAGGTTTC 60
TACAACATAT TGTTCAGTG TTCAAATAAA CTGAAGGACT CAACATTACA TTTGAACTAT 120
ATCCTTCCTA GTGGGTAGT GTGAAAAAGN GNTTGGCTGA TTCCTAAAC TCTGCCAGCC 180
CTGCAGTAAT CTCCAGGGNC NNGTTATTGT TCAGACATTC CNTGGTGATT CCTGGGAAGG 240
AAGCTTGGCT GCTCAGTTTC TGAGTCTGGG GTGAGATAAT GTTCTGGGAA GGGACATCTG 300
TTCTTTGGTG TAATCTCTCA TGGTGAAATC TGCTCTGTAC ATCAGACAAT TGCATTGCTA 360
CCAAGTTTCA TACCAATAT TTGAAAGGTT GGTATTGAAT CTAAANCCAA ATATTAGTTT 420
TTNTTAACT CATGGGN 437

SEQ ID NO:3425

LENGTH:424

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04033

SEQUENCE DESCRIPTION:

GATCCAAACC TTACACCTGA GTCTGTTAAG AGCGCCCTGC TACAGGAGGC CACAGACTGC 60
CTGATTCTNN NGGACCGCTG TTCTCAAGGA CGGGTAAAGG GTCTCCTGGC CAAAATTCCC 120
CAAAGCTGTG AAGACAGAAA AGTGGTGAAC TATATCAGAA AAGTGCAGCA GGTTCCTGAA 180
GGCGCACCTT ACAATGGAAC TTAAGACTTG TATTACTTTC CCAAGAGGAA AGGATTTTTT 240
TCCCATCCCN NNTTGTATGA ATGGAGTTAT TTANGAAAA ANGATATTTT TACACGAAAC 300
TTTGTAAGTG AAAGCTGCTT TTTCTTCCT TTCCTTTCCT TTTACCTCCA TAAGGAATAG 360
GGAANGTAGG ACCAAGANAN AATTGAACTC CTTCCCATTT TCTAAATAAA GGTTTTGGGG 420
GAAA 424

SEQ ID NO:3426

LENGTH:422

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04034

SEQUENCE DESCRIPTION:

GATCTCNGAG CTACAATACT CACTANATAT ANTTTTCCAA TCAAAATATN CTATTCTATA 60
TTCTAAGGGT TAATATGTGA TTATAGTGTC CACTTGCCAC CATTTTTTTA AATCAATGGA 120
CTTGAAAAGT ATTAATTTAG ATGGATGCGC AGATATACCC TCAGTTCAGT CATAGATTGG 180
AGTTTGCATA TAATANNNCN CCGGTATGTN GACACTATTC TAAATAGTTC TATTATGACT 240
GAAATTTAAT TAAATAAAAN NGGTTGTAAA ATGNGATGTG TATGTGTATA TACNGTATGT 300
GTACTTTTTA AAATAGGGTG TATGTCCCAA CCCTTTTTTA TACAGGTNTG AATTTAAAAA 360
TACCATGGTT ATATACATAT ACCTNGNNTT NGTCCTAAAA TAAAGGNTT TNATGCACGC 420
NN 422

SEQ ID NO:3427

LENGTH:408

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04035

SEQUENCE DESCRIPTION:

GATCTTTCCA CCTCAGCCTC CTGAGTGGCT GGGACTACAG GTGCATGCCA CCAAGCCTGG 60
 CTAACCTTTT GTAGAGATAG GGTTTTNCCA TGCTGCCCAG GCTGGCTTAG AATTCCTGAA 120
 TTCAAGTGAT TTGTCTGCCT CAGGCTCCCA AAGTGCTGGG ATTACAGGCA TGAGCCACAC 180
 TGCACCCAGT CCATGCTACC CTTTTTATAT GAAACACCTA TTAACACGGT ACAACAACAC 240
 TTCAAAACAT ATTATTTGAA TTTNGGCNTC TGATTTTTTA GTCANCAATC CATTANGGCA 300
 AANACCTNGT TTTCCAAACT CAGATGTTCT CCAACTTACA CTAATGTNTG GTTTTTTTGG 360
 ACTTNGGTGN GGGGAAAAAN TTAACCNGGT TTNNTTTTN TTATCAAA 408

SEQ ID NO:3428

LENGTH:378

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04036

SEQUENCE DESCRIPTION:

GATCTTAGCT TCTTTAATCA GACTTTGTGA CTTAAAAGTT TGGGGGTTTT CTTTGAAAGT 60
 TTCCAGCCCT ATTCAGAAAG CAACTCTTGG CTGTGTGCAT TTTTCAATC CAAGCAGCCC 120
 AGGGGTAAGT AAACAAAGTA TGGATGAAGG TCAGATTTTN TTGTCANNNT CTGAGAAACC 180
 TGGCAGCCTG CTGTTAACAA CACAGGCCAG TATTGGGTTT TATTGAATTT GGTATGTGAC 240
 CAAGGTCGGC CTAAAGGATG GCGCAGGTCC TGGGCAGGAA AGAATTTTTC CTTTATCACA 300
 TAACTGTAAT ATTTGGTTGC TCAGCATAAG TNATGGAAGC AACCCTTAA TTTCTAATAA 360
 ANTTGTGTTA ACCTCAAA 378

SEQ ID NO:3429

LENGTH:376

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04037

SEQUENCE DESCRIPTION:

GATCACAACA CCAGTACCAG CACGAAGAGC CTCCTCCCGA AAGAGTCTCG ACTGGACACC 60
 TTCTGGGACT AGCAGTGAAT CGGGACACAA ACCACCCACC CCATTGGGAG AAAAACCAG 120
 ACGCCAGGAA AAGAAGAAAC AACAAAGGCA GGAGAACAGC CACTTTCAGA CTTGAAAATG 180
 ACAAACCCT CAGTTGAGCC TGAGCCCCG GCGCGGGGGC TGCTACACTA CAGGACACCC 240
 AGCATCGGCT TTGACTGCAG ACTGTTACC CACACGAGCC CTGTGCTTTT GGTGTAAATA 300
 ATGTACAATT TGTGGATGTC ATTGAATCTA GAGGACTTTC CCCTTTTAT ATTTGTATTA 360
 ACTTTAACTT ATTAAA 376

SEQ ID NO:3430

LENGTH:368

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04039

SEQUENCE DESCRIPTION:

GATCAAGCTT GTGTACTTGA CCGTTTTTAT ATTACTTTTG TAAGTATTCT TGTCCACATT 60
 CTACTTCAGC TTTGGATGTG GTTACCGAGT ATCTGTAACC CTTGAATTTC TAGACAGTAT 120

TGCCACCTCT GGCCAAATAT GCACTTTCCC TAGAAAGCCA TATTCCAGCA GTGAAACTTG 180
 TGCTATAGTG TATACCACCT GTACATACNN NGTATAGGCC ATCTGTAAAT ATCCCAGNGA 240
 NCAATCACTA TTCTTAAGCA CTTTGAAAAT ATNNCTATGT AANTNATTGT AAACCTTTTC 300
 AATGGTTGGG ACAATGGCAA TAGGACAAAA CGGGTTACTA AGGTGNAATT GNCCAAAAAA 360
 TTTTNTAN 368

SEQ ID NO:3431
 LENGTH:374
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS04040

SEQUENCE DESCRIPTION:

GATCAATCTC AATTCCTTTT CATGCCCTCC TGCATTGCTG CTGCGTGGGT ATTTGTCTCC 60
 TTAGCCATCA GGTACAGTTT ACACTACAAT GTAAGCTATA GGTGGAGCAT CAGCAGTGAG 120
 TGAGGCCATT CTTCATCCTT AGGATGTGGC AATGAAATNN TGGTGCAAGT TCCTTTCTCT 180
 TTTGTGAATC TTTCCCCCA TTTCTGTCTT ACATGTAACC CAACAAAATG CAATTTCTAG 240
 NGCCTTCTGT CCAATCAGTT CTTTCTCTG AGTGAGACGT ACTTGGCTAC AGATTTCTGC 300
 CTTGTTTTGC GACATTNNTC CCATTACAC AGNTATTTAN GGGGCTAATN AANNGGANAA 360
 ATAAGGCTTA CAAA 374

SEQ ID NO:3432
 LENGTH:369
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS04041

SEQUENCE DESCRIPTION:

GATCCTGGAG AACCTAAGAC TCCAAAAGCG TGGTACTGGA GGAGTGGACA CTGCTGCCAC 60
 AGGCGGTGTC TTAAATATTN CTAATTTGGA CCGACTAGGC AAATCANAGG TGGAGCTGGT 120
 GCAACTGGTC ATCGATGGAG TAAACTATTT GATTGATTGT NAACGGCGTC TGGAGAGAGG 180
 CCAGGATATC CGCATCCCCA CACCTGTCTT CCACACCAGG CATTAACTCC CCATCGNCCA 240
 GCTGATGACT CAAGATTCCA AGGAGTTCTG CTCATTCTAA TGGTGGGCGG TTCTACTTGN 300
 TCTGGACCTG NCCTNGNATC CCCNTNGNCC TNTNNTTCCT TAGTTAAAGA CTTNGTTAGC 360
 TGATGNAAA 369

SEQ ID NO:3433
 LENGTH:358
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS04042

SEQUENCE DESCRIPTION:

GATCGTGGGG TTGTTGGCAG AGGGCAACCC TGGGCCCCAC ACCGTGTGGA CAGGCAGACA 60
 CCAGATTGTC CAGGAGCAGG AGCTGCTGGG ACTGCGCTGG CCCCAGACCT AGTGGGCCTT 120
 CTCCTGGCTG CTGAGATGTC GTCTGTGACT GGCCTGGCTG GAGGGGGAGT GTTGACAACC 180
 CAAAGCTGTT CTCCAGTCTG GGGAGGGAGA GGCAGGGTCC CCAATGTCCG AGCTGNATCT 240
 GGACGCTGCT CTTAAAGGAC CTCCTGGGGN AGGGGAAGCG GTAGGNTCTG GACTGGGNAA 300

GATGCTGTAT GACCTCCCTG AAGNACCCGT GACTTCCCCA TGNTTTACCC TTTTGTGN 358

SEQ ID NO:3434

LENGTH:354

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04044

SEQUENCE DESCRIPTION:

GATCTAGAAA GCAACTTGGA AGTGTAAGA GTCACCTTCA TTTTCTGTAA CTCAATCAAG 60
ACTGGTGGGT CCATGGCCCT GTGTTAGTTC ATGCATTAG TTGAGTCCCA AATGAAAGTT 120
TCATCTCCCG AAATGCAGTT CCTTAGATGC CCATCTGGAC GTGATGCCGC GCCTGCCATG 180
TAAGAAGGTG CAATCCTAGA TAACACAGCT AGCCAGATAG AAGACACTTT TTTCTCCAAA 240
ATGATGCCCTT GGGGTGGGGA GTGGTAGGGG GAAGAGCTCC CACCCTAAGG GGCACACACT 300
GAGTTGCTTA TGCCACTTCC TTGTTCAAAA TAAAGTAACT GCCTTAATCT TAAA 354

SEQ ID NO:3435

LENGTH:354

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04045

SEQUENCE DESCRIPTION:

GATCATTAAT GAGGAGCTGA TGGCCTCCCT GGACCAGCCA ACACAGACAN TGGTGATGCA 60
CCGCACTGAG CCCACTGCC AGCAGAACCT GGCTCTGCAG CTGGCCGAGA AGCTGGGCAG 120
CCTGGTGGAG AACAACGAAC GGNTGTTTGA CCACAAGCAG GGCACCTACG GGGGCTACTT 180
CCGAGACCAG AAGGACGGCT ACCGCAAAAA CGAGGGCTAC ATGCGCCGCG GTGGCTACCG 240
NCAGCAGCAG TNTCAGACGG CCTACTGAGC TCTCCACTCT GTTTCCCGCC TGGGCCATCC 300
AACCTGAAG TCCTAAACCA CACCTCAGTC ACTAAAGGTC TGTTTAAAGT TAAA 354

SEQ ID NO:3436

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04046

SEQUENCE DESCRIPTION:

GATCTAATTT ATTTATTTAT TGCCTGGCCG GTGACTCGGG GGAGGAGGCG ACCCTGTCAT 60
CTGTCCCACC TGCTGCTGCC CCTTGAGCA GCCTGCACCT NCTCTCCTCC CATCCGGCAA 120
CAGTNTGAAA GTACGTGGAG GACGGGACCG GAAGACGAGA GAGGGCTGGA CATCCTGCCC 180
ACCGTNTCCC AGCCAGGGCA GGNGAGGGGA CCATGGCCCG NANGTCAAGG GGCCCCGATG 240
TGCACAGCTG CCACAGGGAG GGAGNTCTTG GGGAGATGGG CANTCAGGTG GCCCGTCCTT 300
GGTNGAGTGC ACANANTTGC GCGNACANAT CGGGGTTTTT CCTGGNTTTN 350

SEQ ID NO:3437

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04047

SEQUENCE DESCRIPTION:

GATCTTGAAT CTCTTTCTTT GTTCTGTTTG TTTAGTTAGT ATCATCTGGT AAAATAGTTA 60
AAAAACAACA AAAAATCTG TATCTGTTTC TAGCATGTGC TGCATTGACT CTATTAATCA 120
CATTTCAAAT TCACCTACA TTCCTCTCCT CTTCCTAGC CTCTCTGAAG GTGTCCTGGC 180
CAGCCCTGGA GAAGCACTGG TGTCTGCAGC ACCCCTCAGT TCCTGTGCCT CAGCCCACAG 240
GCCACANTGA TAATGGTCTG TTTAGCACTT CTGTATTTAT TGTAAGAATG NTTATAATGA 300
AGATACACAC TATANCTACA AGAAATTATA AATGTTTTTC ACATCAA 348

SEQ ID NO:3438

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04048

SEQUENCE DESCRIPTION:

GATCTGAGCC ACCCTCCCCG CACAGCCCTG CACCCCGCCC CTAGGGTTGG CAGNCTCANT 60
TGGCCCCTGG CAGAGGAACA AGGACACAGA CATTCCCTCA GTGTGGGGGG CAGGGGACAC 120
AGGGAGAGGA TGGTTGTCCC TGGGGAGGGC CCTCTGGCCC CAGGCAACCT TAGCCCCTCA 180
GAACAGGGAG TCCCAGGACC CAGGGAGAGT NTGGGGACAG GACAGCCTGT TTCTTNTAGC 240
TTCCTGGGGT GGGAGGCACA GGGGCAAAGC ANTACCCAG GGAAANTGGG AGGTGGTGCT 300
GGTGCTCTCT CCAGGNCCAC CATGCTGGGA GAGGCGGCCA GAGCTTN 347

SEQ ID NO:3439

LENGTH:346

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04049

SEQUENCE DESCRIPTION:

GATCTTCCCT GGNCGCCTTC GGCTGCNTGC NTGCCTGAGG TCCNCGCTGC CAGTCCCGGG 60
CCCTGGAGAG CAGATGCTGT CTTGTNATGT ACAGGAGGAC CTTTTAAAAA AATCAAGTTT 120
CTATTTTTTN CTGGTAGTCC GCATACCCAT ACCCTCTGTT TTTNAAAGGC AAAGGCCAAT 180
NAGTCCCAT TTGTAGCATG GCACCAGGGT CTTAGGCCTA GTCCTCTCAT TCCTCCCACC 240
CTCCGAGATG GTCAGTGTGT CATGGGAAGC CCACCCAG CTCTGCCAGT GCTCTCTGGG 300
CCTGGNTCCN AGTCAGTGGT GGCCACGATG CGGTACAGGG CATCCN 346

SEQ ID NO:3440

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04050

SEQUENCE DESCRIPTION:

GATCCATGTG ATTATTAATA TGACTGTAGC TGAGAGCTCT AATTTNCCTG TCTTGAAACT 60
GTATAAGANC TCATGTGATT AAGTTCACAG TTTATTGTTT GTNTGTTTAG TATTTNAGAA 120
ATATAACAGC ACTACTAATT AACTAATGTC TNTNATTTAT NATATTATGA TAAAGTAAAA 180
NTTTCATTG CATTAAGTCT AAAGTGAGAA GGTAATTACT GGGNGNGAN TGAGCAGCTT 240

TGACTTTGAC AGGCGGTTTG TGCAGGAAAG CACAGTGCCG TGTTGTTTAC AGCTTTTCTA 300
GAGCAGCTGT GCGNCCAGGG TAGAGGAGTG TNGAAATTCA TTN 343

SEQ ID NO:3441

LENGTH:340

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04051

SEQUENCE DESCRIPTION:

GATCTGCTCA GAAAGGAAGA GGCAGGCGCC AGGGGGAACC CCCTTCGTGT TTTGTAACCC 60
TCCCTTTNAG GTGAAGCCCT TTTTCTTGCT AAAACCGGCA ATTCTCCGGT TAGAAATNTT 120
ACTTGGTGTT TTTTGGTTTT GTGAAACGGC CGTCCCAAAG CTGGCTGGAT TCCTAGAAGA 180
GTCTGTGTTG AAGGCATCTT TCAAGCCCTC GCTCTGGTTC TNAGGGCAGC ATTTTCCAGG 240
CGGGTTTGTT TTGCATTTCT TGGAGCCTCT CCGNGNAGCA ACCAGACGGG AGATTTTAAT 300
TTTAAGCTGT TCATGCTGGG NCTGACAGCC TGCAGGGTTN 340

SEQ ID NO:3442

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04052

SEQUENCE DESCRIPTION:

GATCCTTGGG CTGGCCTAGA ACCAGTATCT GTAGTGGATA TAAGCCAACA ATACAGCAAT 60
ACTCAAACAT TCACAGGCAA AAAAGGAAGA TACTTTTNTT AACATTTCTG AAATTCAACT 120
GGAAGCTTCA TGTGTCAGGA ACATCTTGGA CAAAACCTTA NGTTGTGTTG ATATAAATTT 180
ACCCAAAGAT GATGNCTTTG ATTGGNATAAT TAGTAAGGTC TTTTGTAT TTNCAATCGT 240
ATCAGGTATT GTTGATATTA GAGAAAAANG TAGGATAACT TGCAACATTT AGCTCTGGAA 300
GTACCTACCA CATTTTNGAG ATTTACCGTT TCCATATTN 339

SEQ ID NO:3443

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04053

SEQUENCE DESCRIPTION:

GATCTGCCGT TNATGTTGCT TTCTCCTTTG TCCTCTTGGA CTTGAGGGCA TTGTGAAAAG 60
CTTTGCTGTG ATTTAAAAAT GCCAGCAATT TTAATCTAGC AGTGTTGAAG CTGGGAATTT 120
TTTGGCGCAA TCCATGTAGC AGTGACCCAG GCTTGGGAGC CAGAAACAAG TGTGACCTGG 180
GATTTNATTT AACACAACAG TTGCCAAAGA GTTGGCTTTG TTTATTTGGT TTTGGCGGGG 240
AGAGGAGTGG TATTTNATGC TTTCTGTGGA CANTGTAACC CTAAACACAN CANGTATTTT 300
AANTGCCACC TACATAANTA AACCATANGC NTATTGAAA 339

SEQ ID NO:3444

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04054

SEQUENCE DESCRIPTION:

GATCTACATA AAAACTGCTA CATGNCAAAA ACCACACCTA AAGAAATTTT AAGAATTTGG 60
CACAGTTACT CACTTTGTGT AATCTGAAAT CTAGCTGCTG AATACGCTGA AGTAAATCCT 120
TGTTCACTGA AGTCTTTCAA TTGAGCTGGT TGAATACTTT GAAAAATGCT CAGTTCTAAC 180
TAATGAAATG GATTTCCAG TAGGGGTTTC TGCATATCAC CTGTATAGTA GTTATATGCA 240
TATGTTTCTG TGCATGTTCT CTACACAATT GTAAGGTGNC ACTGTATTTA ACTGTTGCAC 300
TTGNCAACCT TTCAATAAAG CATATAAATG TTGGTTAAA 339

SEQ ID NO:3445

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04055

SEQUENCE DESCRIPTION:

GATCAGCCTC TTCCTCTATA AACAAATGACC AATTAGACGT TTCCGTAATT CCATGTATTA 60
TGTATAGTAC ACTCTATAAA TGTAATGTA ATGCTTGTCT AAAAAAGTGA ATTTATTGTA 120
CATTGTCCCA ACAAATGTTT ACTTTTATAA TCGTTATGAA CTGAATTGG ATTAGTATCT 180
TGTTTTTATG TGTGAATGAA GCCTTGTGAA ATAAACAAAT GCAACTGAGA AGGTAACAAG 240
GTGACTGTTT TTGTGAGCCA GTGATGTTTT CAATGCTTTG TGTGCCCCT TTGGCCCCAT 300
TAAGCAGTAA TAAACATTTG TTCTGAAGTC CAAA 334

SEQ ID NO:3446

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04056

SEQUENCE DESCRIPTION:

GATCCAAGAA GCGGGTCCCT GAGACGGGGG GTGGCTGCCC TCCCAGACC ACCCGGCAG 60
CCTGAGCAGN TCCAAAGCAC TGGCTTGGGG TCCGAGACCT TCAATGTAAA GCAGGCGGAA 120
TGGGGGGACA GGACAATTC TCCCCCTCCA GGGGCTCCAG GACTCTCCCT GGGGGGCCCA 180
CCTCTTGCCC CCTAACCTCT TTCCCCCTTT TCTGCCCCCG TGGGGAGGAG CCCCTTGTAC 240
CTGCTCCGTG CCAACACAT GCCCTCTCTG TACATCTTTT GGTAATNAT GAGAAATAAA 300
GGAAGTGGAC GCAAAGTGGA TGCGGCAGCA GAAA 334

SEQ ID NO:3447

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04057

SEQUENCE DESCRIPTION:

GATCCAATCT CAGTGTCTAA CTCATCATCC CAGATTATTC TGAAGTGGAA ACCACCCTCC 60
GACCCCAATG GCAACATCAC CCACTACCTG GTTTTCTGGG AGAGGCAGGC GGAAGACAGT 120
GAGCTGTTCT AGCTGGATTA TTGCCTCAAA GGGCGAGTCC AGTCATCAGC TCCGCTGTAA 180

GCTGTTGGCC CTGCATTCAA GTAACCAGAA CCACCCGTGA GAGCTGCCAC CAGGTANTGT 240
CACTCGAAGC TTCCTTTTTT TTTTTTTTNA ATTCCGGAAA GTTTAANTCT GTANTCCCAG 300
GGGNCCATTT AAANANGGTT TTTTTTGTG AN 332

SEQ ID NO:3448

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04058

SEQUENCE DESCRIPTION:

GATCCAAAAA AAGCTNGAAG CCTACATTTC CCAGAGCCCC TTTCAGCTTG AATTCCAAAT 60
GTGACTTAGC TTCCTCTATG CAGATGTACC TACTTGAAAC TGGGAAGGCC AAATNAGATA 120
GAGGNAATNT TTCTGCCAAC AAACAGCCAC AGAGCATTTT ATTTTCTAG AAGAGCAATA 180
ACAGAGACCC CAGGGTGTGG TGTGGCAGGA CGAGGAGCAT CCATTTTGCT GGNGGGGATT 240
GTGGCTAAAA TAATNGGCT CTGGAGCCAG CAATNGGCAG CATCTTCATG ACTTTCAGN 300
TTCCAGGCTG TAAGCAGAGA TAGCATCTCT TN 332

SEQ ID NO:3449

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04059

SEQUENCE DESCRIPTION:

GATCCACTAT ATGCCTCAGC ACATGGAACC TTAATGACCA AAGTGAAGAG CAGATTATTC 60
ATACGGTGTA ATAAGCATCT GGAATGGACC CATCCGTGTA CTTCAATCAA ATGTGTAAAT 120
GTCATATTCA TTCAGATTTA TAAAGCTAGT AGTGTATAGT CAGAAACAGA ATCAAAGTTA 180
GATATACATT TTAAATATT TACTGCATAT GAGGCTTTCT GTTAATTTTT TAATGTGAAT 240
AATTTATATA TTGCACATTC TAGGGAATAA TATTGATTGT ATGNCTACTG TGCTGCATTA 300
AGAAAATAAA ATTCCTATAT NCCAAA 326

SEQ ID NO:3450

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04060

SEQUENCE DESCRIPTION:

GATCAGAAAA ACTGAAGATG GAAGTTTTGG CCGGTGCTCA TTAGACATGA GTCCTCACTC 60
TGNTCTCTGA GCCCGTTTCA TTCTTCCAAC CTCCCTGCCC CCACACACTT ATCCCAGACA 120
CAACACCATG TGGTCTGGAG GTCCCAGCCC CCACCCTAAA AAGGTTATCC CNGAGAACTC 180
CACCAGACTT GGGAGCCCAA GTGCAGTGCC TGGNGCTGCT CCCATCTGCC GGCCCCNTTC 240
TTTCTNGCA ATGGGTTTGN ACTCACTGGG CTGTGCTCTN CCCTGTTTAC CCGATGNNG 300
GGAAATAAAG GCCCTTTTGC CTCCTGAAA 329

SEQ ID NO:3451

LENGTH:325

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04061

SEQUENCE DESCRIPTION:

GATCTGGCGC TTCTACTTTG AGGGCTTCTT TGACCTCATT GCTGTGGTAN GCCGGCGTAG 60
TCCAGACCAT CCTATACTGT GACTTCTTCT ACTTGACAT TACAAAAGTA CTCAAGGGAA 120
AGAAGCTCAG TTTGCCAGCA TAAAGTGCCAA AGGCCATCAC CAGCATCTGT CCTTCAGGGT 180
GCTCGGACAG ANTTNTTACC ACAGCAANGG CATAAGGTGC TTTATACGGA AANTCAGNAA 240
CTTAACCTTT TTGTTGCAGN TAGTCATCAG TGGCTCTGTA AAAACGGAGG GGGAAAGNGN 300
CNGGAGGTTT CTGTTTAATG CATCN 325

SEQ ID NO:3452

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04062

SEQUENCE DESCRIPTION:

GATCTGATTT TATGTTGTA ACTTTCTGTA AAGAAAGACA CAAGGACTTT TCAAAGACAG 60
TTTATATCTT TCCAAGGCAG GAAGCTTTGC ATTTGCAATC TTAGTGTTGT GTCCCTTTCT 120
GATTTTCAAA TACATCACAC CTGCCTTCTT GTTTTGGGAG CAAAGATGTA ATTTCAATTC 180
CCCTTGCTAC CGTCTTATT TAAATNATTT CCATTCTAAG AGATTTTNGT NATTTNNTA 240
AATGTAATCT GAGCACTTTN TNGTATTCTA AAAGATAGAT GATATCAGAT AAATATGTTG 300
TACATTTTGA TTAATAATTAT TTTN 324

SEQ ID NO:3453

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04063

SEQUENCE DESCRIPTION:

GATCTGGAAG ACAGACGTAC AGCTTGGAGG GCAGGGGGAC TCTAAGGCAA GGAGATTTAC 60
AGTTGGGAAG GAGGCAGTGG CAGAGGGGTG AGGGACAGGG GCCCTTAAGT CCAGCGAGGA 120
AAGCTCNNTG TGGGCCCGCT CTACGCTCCG TTTGGGGTGA CCTGGAACGC CTCTTCTCCC 180
AGCTCCCTCC AGCCATCAGC AGCCTCTTGT CAAGCTTCTG CCTCGCCCCA GTCTATCCCC 240
AACCCCAAAT CAAGACCACC TTTCTTCACG GTCATATTT ATTCTTTGTT CCTTTTCTT 300
TTTGTAAGAA ACATTCACAA AAACCAGTGC AAAACCAAA 339

SEQ ID NO:3454

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04064

SEQUENCE DESCRIPTION:

GATCTCAATG CTGTCTGGGG ACCCTGAAGA GTTTTNTNAC CTGTTTCAGT TCATCTAACC 60
TTCCAATGTN TGATGTTTCT GCCAAATTCC TGCCTGATTC TGGGTCCGTC CTGACCTCCA 120

AAGGTCAGNT TGGTGCTTGA GGTCTCCNTG CTCTTGGTGG CAGTGGTAGC AGCAACAGCA 180
GCAGCAGCAG CAGCAGCAGC AGCAGAGACC TNTCCACTTT CCCTTAGCCC TNTGNTGGGT 240
AGAGGGA ACT TAAGGGACTT CCTCCAGNNG CNTTTAATNT GGAATGGGT AAGAAGGTTG 300
NGCTCCNCTG TTNGTTN 317

SEQ ID NO:3455

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04065

SEQUENCE DESCRIPTION:

GATCCTCAAA AAACCCAAAA ACACCATTCT CTAATAGTCA TGACAAATGG CTTCAGTATG 60
GCTTGTTTTT NATTTNCCAG ATGGCTTTT CTCTTATTTT TNGAAGCCCC AGTCTTTGAT 120
TTTACAGGTA ACTTTCAAAA CATCATGATG CTGCCAAATG TACTTTTGTA AACTTAAACA 180
TTATGATTCC TGTATTATTT CAGTGAGAGC TACAGTGTGA TATTNCAGAG TCTATTAAAT 240
AAAAATGTGA GTTTGAATTA CACCATCTGT GCCAATTACA AAGCAATTAA AGGATTTATN 300
TNTNATGAAA AAAAN 315

SEQ ID NO:3456

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04066

SEQUENCE DESCRIPTION:

GATCTGAGGC TGTGTCTCTG CCTTGTTTTT AGAGGACTTC AGCGTCCAAG ACTGGGGCCC 60
ACCNTTNTCA CCAGCACTAA ATGCACTAAC AAGGACTCCA GACCTGCAGC CCCAGACCCG 120
CCGTAGTATA AGCCTAACAA GCAACANGTA GCACCTTAGT CTTTGTTCCTA GGAGAGCTGA 180
GCAAGCTGGT GAAACCACTC TCCTTCCTTT AAACANCGTT TCAACCANCC TTTNCNTGGA 240
GCCAACNTGT AAAAAGTGGG TTGATTGCTG ACAGNATGGT CTTCTTCCCT TGGATTTNAG 300
ACATACCACT TN 312

SEQ ID NO:3457

LENGTH:309

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04067

SEQUENCE DESCRIPTION:

GATCTTTCCG GGGCCTACAG GCGTGTAAGA CAGCTTGGTC TGGTCTGTGC AGAAGTGGGG 60
AGTGATGGGC AGGTTCCGCA GCCTAACATT GTTCAGGCGC ATGGCCCCTG CGGTGTGTAC 120
ACGAACTCGG CTTCTTTTGT CCTAGGTACG CCAAGGGCAG GTTCTGGAG ACTCCCTTGT 180
GCCCCGGATG GCAAGGGCAC CGGGCTGGCG TTTCCACATC TGTCTTCATT AGCAGANNAG 240
TGATGATGGA TTTTATTTCA CTCACACTCC AGTTTGTAAT AAAATGCCAA ATTCTGTCAG 300
CTATCCAAA 309

SEQ ID NO:3458

01151

LENGTH:309

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04068

SEQUENCE DESCRIPTION:

GATCAGCACC ATTTGTGGTA TGTTCGGTGA TGAGCGTTTA GTGAGCCTNN TGGCTGCAGA 60
GCACTATGAA ATCATGGTAC GTAGTCCCCG GCACCTGTCG TTATTCCTAT ATCCTCCTGC 120
AACTGTGGTT TGAAACTGCG CATTCTCTAG TAGTATATAT CGTGCCTGTC TTCAAAAACA 180
TTTCCCTTNN GTATACTCAT NCCCCCAGG CATTGGGGTA GTGTCAGTCG GACTGCACAG 240
GGAACACGGT TTCCAGTGGC TTTGGCCCCT ACTCGGGAAA CGTCTGCCTG TTCTCGATNG 300
TGATGGGGN 309

SEQ ID NO:3459

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04069

SEQUENCE DESCRIPTION:

GATCTAGCTG GTCACGACGA TGTTTTACAC AAGGTCACAG GAGCATTGCG TCGCTGATGG 60
GGTTGAAGTT TGGTTTGGTT CTTGTTTCAG CCCAATATGT AGAGAACATT TGAAACAGTC 120
TGCACCTTTN ATACGGTATT GCATTTCCAA AGCCACCAAT CCATTTTNTG GATTTAATGT 180
GTCTGTGGCT TAATAATCAT AGTAACAACA ATAATACCTT TTTNTCCATT TTGCTTGCAG 240
GAAACATACC TTAAGTTTTT TTTGTTTTGT TTTTGT TTTT TGT TTTTNG TTTTCCTTA 300
TGANGAAA 308

SEQ ID NO:3460

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04070

SEQUENCE DESCRIPTION:

GATCAAGCAG AGAAANTAAT TAATTTTCATG GGAATAAATG AACTAGTGAG GATAATATTT 60
NCATAATTNT TNATTTGAAA TTTTGCTGAT TCTTTAAATG TCTTGTTTCC CAGATTTTCAG 120
GAAACTTTTT TCCTTTTAAG CTATCCACAG CTTACAGCAA TTTGATAAAA TATACTTTTG 180
TGNACAAAAA TTGAGACATT TACATTTTCT CCCTATGTGG TCGCTCCAGN NCTTGGGAAA 240
CTATTCATGG AGTATTTNTA TTGTATGGTA ATATAGTTAT TGCACAAGTT CANTAAAANT 300
CTGCTCTNTG TATAGCANGG NNNGGGTTGG GGGGGCGGGN GGNGGGGGGG N 351

SEQ ID NO:3461

LENGTH:305

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04071

SEQUENCE DESCRIPTION:

GATCAGATAG TTTCTGAGG CTAATAATGCC CCAACATGTA AAAGACTGCN ACAAGGGTTA 60

ATGAGCCAGG AACTGCGGAT GGTAACCTAC ATCTCTATAA TTACCATAGG ATATATATGA 120
 GTACCATAGG ATTCTTTTGC ATAAGTGTAG AAAGTACAGA CAACACCCTC CCGTGTGTTGC 180
 TATTAGAGTT TTTANTGTTG ATTGGAAAAT GGGAGATTCA CTGTGTGCCA TTCTTGGTAT 240
 ACGTTGANGA AATTACATCA CTAGTACACA CNGNGGNNNT TCCACATTCA CACGCCCCAG 300
 CTCTN 305

SEQ ID NO:3462

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04072

SEQUENCE DESCRIPTION:

GATCAAGCTA CAGATATGGG ATACAGCAGG CCAGGAGCGA TTTCACACCA TCACAACCTC 60
 CTACTACAGA GGC GCAATGG GTATCATGCT AGTATATGAC ATCACCAATG GTAAAAAGTTT 120
 TGAAAACATC AGCAAATGGC TTAGAAACAT AGATGAGCAT GCCAATGAAG ATGTGGAAAG 180
 AATGTTACTA GGAAACAAGT GTGATATGGA CGACAANNGT GTGTACCTA AAGGAAAAGG 240
 TGANCAGATT GCNNGGGAGC ATGGTATTAG GTTTTTTGAG ACTAGTGCAA ANGCNGGTAT 300
 AAN 303

SEQ ID NO:3463

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04073

SEQUENCE DESCRIPTION:

GATCCGGTCA TACATCCACA TCAGGCCTGG CCAGCTGGAT GTTCTTAAAN AGTTCACAA 60
 GCAGATTACT GCACGGGCAA CAAAGGATGG GACTTTTGTC ATTTCAAAGA CATGATGTAT 120
 GGGGATTAGA AAGAACTCAA GACACTCCTG CTTGATACAG AACAAAAAGA GCTTAACAGG 180
 ACCAACAGGG CTTAAGCCCA GACTTGACGT AACAGAAATG TGCCAATAGG TAATAGGTAA 240
 TTTTNCCTTC TCTGACTGT TTTGTTTTCT TGAAATAACA CTGTTGTGTG GCTAGAAAGG 300
 AAA 303

SEQ ID NO:3464

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04074

SEQUENCE DESCRIPTION:

GATCTACTTT CACATTCTCA AGTTTTNTC ATCTGCATTA GAGGTGCCCA GTAGGTTCCC 60
 AGGTTCCAGC GTGCCCTCC CTCAGACACA CGGACACAAT CAGCCGAGAA GTTCCTGGTC 120
 TGAATCACGA GAATGTGGAG GGGTGGGGGG TGTCAGTGGA AAGGCATAAG GCTGAGCTGA 180
 GACCAGTTGC TGGTGAACT GGGCCAATCT GGGGAGGGGA ACATCCTTGC CAGGGAGTTT 240
 CTGAGGGTCT GCTTTGTTTA CCTTCGTGC GGTGGATTCT TTTAACTCC GTCTACCTGG 300
 CGTTTTGTGA GAAATGTCAG ATAGGAAAAT AAAAACCATT TGAGTAAA 348

SEQ ID NO:3465

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04075

SEQUENCE DESCRIPTION:

GATCTGACCT GGTGAGATTA TTTCTNATGA CCTCATCAAA AAATAAACAN TTCCAATGT 60
TCCAGGTGAG GGCTTTGAAA GGCCTTCCAA ACAGCTCCGT CGCCCCTAGC AACTCCACCA 120
TTGGGCACTG CCATGCAGAG ACGTGGCTTG GCCCAGAATG GCCTGTGCCA TAGCAACTGG 180
AGGCGATGGG GCAATGACAG ATACANCAGA ACANTGCTTT TGAGGCANGC TTCTTCCCTN 240
GNGGGTNGGT TGTNATGGCC NTGGCTTTTT NAGTTGGGNG NCATTANAT TAAGGTTN 299

SEQ ID NO:3466

LENGTH:415

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04076

SEQUENCE DESCRIPTION:

GATCTACGTN ATCTCAGGGC AGTTCCTACA GATGAAGCAA GAGCTTTTNC AGAAAAGAAT 60
GGTTTGTNAT TCATTGAAAC TTCGGCCCTA GACTCTACAA ATGTAGAAGC TGCTTTTNAG 120
ACAATTTTAA CAGAGATTTA CCGCATTGTT TCTCAGAAGC AAATGTCAGA CAGACGCGAA 180
AATGACATGT CTCCAAGCAA CAATGTGGTT CCTATTCTATG TTCCACCAAC CACTGAAAAC 240
ANGCCAAAGG TGCAGTGCTG TCAGAACATC TAAGGCATTT NTNTTCTCCC CTAGAAGGCT 300
GTGTATAGTC CATTTCCCAG GTNTGNGGAT TTAAATATAT TNGTAATNCT NNGTGTCACT 360
TTTGGTGTTT TATNACTTCA TACTTATGGN TTTTCCATG NCCTAAGNCT TTTN 415

SEQ ID NO:3467

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04077

SEQUENCE DESCRIPTION:

GATCCACCTT CTTCCTTAGG TCCCCTCCTC CATCAGCAAA GGAGCACTTC TCTAATCATG 60
CCCTCCCGAA GACTGGCTGG GAGAAGGTTT AAAAACAAAA AATCCAGGAG TAAGAGCCTT 120
AGGTCAGTTT GAAATTGGAG ACAAACTGTC TGGCAAAGGG TGCGAGAGGG AGCTTGTGCT 180
CAGGAGTCCA GCCGTCCAGC CTCGGGGTGT AGGTTTCTGA GGTGTGCCAT TGGGGCCTCA 240
GNCTTCTCTG GTGACAGAGG CTCAGCTGTG GCCACCAACA CACAACCACA CACAN 295

SEQ ID NO:3468

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04078

SEQUENCE DESCRIPTION:

GATCAAAGCA CTGGGCTTGT CCAGGCNCAT AATAAATGCT CCATTGAANG TACTATTCTN 60

GTTTTCCACT GCTGTGGAAA CCTCCTTGCT ACTATAGCGT CTTATGTATG GTTTAAAGGA 120
AATTTATCAG GTGAGAGAGA TGAGCAACGT TGTCTTTNCT CTCAAAGCTG TAATGTGGGT 180
TTNGTTTTAC TGTTTATTTG TTTGTNGTTG TATCCTTTTC TCCTNGTNAN TTGCCCTTCA 240
GAATGCACTT GGGAAAGGCT GGTTCCCTAG NNNCCTGGTT TGTGTCTNTT NN 292

SEQ ID NO:3469

LENGTH:291

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04079

SEQUENCE DESCRIPTION:

GATCTCTTAA GAGATGATGG ACTTATGTAT GTTACAAGAC TTCGAAATGT TGGAGTCCAA 60
GTNGTTCATG AACATATTGA GGATGGAATT CATGGAGCTT TATCATTCAT GACTTCACCA 120
TTTTATTTAC GTCTAGGTCT TAGGATAAGA GATATGTATG TAAGTNGGCT GGATAAGANT 180
TTATAAATAT GTGATGTGTA TGTATAGCCC TTACATAGTG GATTGTAATT NGTGATATTT 240
TGTGGTTTTG GAGCAAAGAN CAATGTCATT TGAGTTATCT AAATCTACAT N 291

SEQ ID NO:3470

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04080

SEQUENCE DESCRIPTION:

GATCTTTTGA TTCCTCTTGG GCTGAAGCAG ACCAAGTTCC CCCCAGGCAC CCCAGTTGTG 60
GGGGAGCCTG TATTTTTTTT AACAAACATCC CCATTCCCCA CCTGGTCCTC CCNCTTCCCA 120
TGCTGCCAAC TTCTAACCGC AATAGTGACT CTGTGCTTGT NTGTTTAGTT CTGTGTATAA 180
ATGGAATGTT GTGGAGATGA CCCCTCCCTG TGCCGGCTGG TTCCTCTCCC TTTTCCCCTG 240
GTCACGGCTA CTCATGGAAG CAGGACCAGT AAAGGGACCT TCGATTAAAA 290

SEQ ID NO:3471

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04081

SEQUENCE DESCRIPTION:

GATCCAAAGT CCTGTGGTTA ACGCCTTCAT TTATAGATGA GGCAGCTGAG GCCTGGGGAT 60
GTGAACAACC TGCTCACAGT CCTCATTTAC TGGATTTGAC TTCAGCCAGG TGAAGTGGAA 120
TGCCTTGGGG CGTGGAAGGG CATTAGGAGT GTTTCATTG ATATGTGAAT GCTCATAAAA 180
AAATGTCAAG GAATGAAGAA CAGCANCTCT CAGTGGTGCC TGCATTTATA ATTATTTATG 240
TGAAAGTCAA ATTCATGTAC AGTAAATTTG TTATAAGAAT ATTCAAA 287

SEQ ID NO:3472

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04082

SEQUENCE DESCRIPTION:

GATCCAAAGT GCAAGGNTTT GATTATAAAC ATAATTCCT AGACTGAAAG TTTTGGAAA 60
AGATGCAGGG TCTGAGTCAG GCCTTCTGGT TATATTGTGC AGTTTCAAAA GAACTATTTA 120
ANACTCTTGA AAACATCATGT AAATAAAAAT CATAGGGTGA AAATTGTATT TGTTAAAATA 180
CCTTAATAAT TTAATAATGAC CTGATTTTCT GGAAAATTTT ATTATTCAAA AGGTGGAGGC 240
ATTGTAAAAA GGAAATAGTG ATGTAAATAA ACATGTTCTC TTTCAAA 287

SEQ ID NO:3473

LENGTH:278

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04083

SEQUENCE DESCRIPTION:

GATCTGTTTG TCACTGACAG ACTGTAGTAG TGTCTGTGTG CTGACTGATA GATAGACTAT 60
AGTAAAAATTT GGGTGTGGCC TGAATAACGG TCTAGGGTCT GTAAGCTGAC AGTCTGCCTG 120
CTTTCTGATT GTATCCATTG AAGTGTATGT ACATTATGGT AATNCTCTGT CTATTAAATG 180
TGTCTAACAA AGGAAGGAAT TAAGCACTCC ACATGTTTTT TTTATAGGGG AGTTCTGTAC 240
ACTATGATTT TAAATAGATA TTTCTTATAT AANGGAAA 278

SEQ ID NO:3474

LENGTH:278

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04084

SEQUENCE DESCRIPTION:

GATCCCAACA CTGAAGGGGT AGAAGGCCAG GGGGGCATGG AGAGTGCAGC TCCATTATAG 60
TGAAGAGCCA AACATATGTN AACTGTTTGC TGTGTGGAGG TGTTAGTTCT GCTGCCTACC 120
ATCTTCATCT CTAGCACCTC CCCTGCCAAG AGTCAACCAC TAAGCAATCC CACCCAAGCC 180
TGGATGCTTC TAGAGGGGCC CACTCCCAGC TGGGAGAGTN TAGGGGATAT GCTCACACCA 240
CATTAGCAGC AACCAATAAA AATGCTGGAA ACAAGAAA 278

SEQ ID NO:3475

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04086

SEQUENCE DESCRIPTION:

GATCTTAACT GTGTCATTTG AAACCCTGTG CGTTTGAAGT GGTGGAGACA GGACCTTTAT 60
CATATTCTGA GCTTTAAATA TATAAACNGG TAAATCATTC CATTTAATAA GACATAGCCC 120
AAGTCCCAGA ACGCGTTTTG AGAGTAACCA GAAACAGAGG TTATTTGTTT TGCTTTCTTT 180
TATCACTGCT ATTGGATGGG ATATCCCAA CAAGTGGATG TGCGCCCAA TTCTATTTTC 240
CACTATTCAA TGATTAATAA AATTACAAA ACGCAA 277

SEQ ID NO:3476

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04087

SEQUENCE DESCRIPTION:

GATCTTTCCA AATACCCAAA TGTCCTGCA AGCCCGTTAA ATAATCCCT ATGCTACCT 60
TAATAACATA CAATGACCAC ATAGTGTGAG AACTTCCAAC AAGCCTCAAA GTCCCTTGAG 120
ACTCCCCAAT ACCTAATAAG GCATGCGAAA TGTTCATG AACTACCCA CAACACGCCT 180
AAACTCAAA ACACCCAAAA ATATNTCCTC CAATGTCCTG AAACATGAAC CCAAAAAGAG 240
ACCCACAATA AACTCGTGAC TTGTCCNTC AAA 273

SEQ ID NO:3477

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04088

SEQUENCE DESCRIPTION:

GATCCTCTCN ACCCTCCTCT AGCCATCCCT TGGGGAAGGG TGGGGAGAAN TATAGGATAG 60
ACACTGGACA TGGCCATTG GAGCACNNGG GCCCCTGG ACAACACTGA TCCTGGAGA 120
GGTGGCTGCN CCCCAGCTT CTNTCTCCCT GTNACACACT GGACCCCT GGCTGAGAAT 180
CTGGGGGTGA GNGGACAAG AAGGAGAGGA AAATNTTTC TTGTGCCTGC TCCTGTACTN 240
GTCCTCAGCT TGGGGNTTCT TCCTCCTCCA TN 272

SEQ ID NO:3478

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04089

SEQUENCE DESCRIPTION:

GATCTTGATA TTNGGCCTCT TTGAAGAGAC AGCCCTGGCT GCTTTCCTNN CCTACTGCCC 60
TGGAATGGGT GTTNTCTTA GGATGTATCC CCTCAAACCT ACCTGGTGGT TCTTTGCCTT 120
CCCCTACTCT CTTCTCATCT TCGTATATNA CGAAGCAGAA AACTCATCAT CAGGCGACGC 180
CCTGGCGGCT GGGTGGAGAG GGAAACCTAC TATNAGCCCC CCGTCCTGCA CGCCGTGGAG 240
CATCAGGCCA CACTCTGC ATCCGACACN 270

SEQ ID NO:3479

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04090

SEQUENCE DESCRIPTION:

GATCACCAAC AGGGAAGAC ATCCTGGTTC TTTTGATGTG GTGCATGTGA AGGATGCCAA 60
TGGCAACAGC TTGCCACGA GGCTTTCCAA CATTTTGTG ATTGGCAATG GCAATAAACC 120
TTGGATTTC CTGCCCAGGG GAAAGGGCAT TCGACTTACT GTTGCTGAAG AGAGAGATAA 180
GAGGCTGGCC ACCAAACAGA GCAGTGGCTA AATTGCAGTA GCAGCATATC TTTTTTCTT 240

TGCACAANTA AACAGTGAAT TCTCAAA

267

SEQ ID NO:3480

LENGTH:263

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04091

SEQUENCE DESCRIPTION:

GATCCCTGGA GTGCCTTGGT GTTTCAGCC CCTGCAGGAA GCAGAATGCA NCTTNTGAGG 60
CACCTCCAGC TGCCCCCGGC CGGGGGATGC GAGGCTCGGA GCACCCTTGC CCGGCTGTGA 120
TTGCTGCCAG GCACTGTTCA TCTCAGCTTT TCTGTCCCTT TGCTCCCGGC AAGCGCTTCT 180
GCTGAAAGTT CATATCTGGA GCCTGATGTC TTAACGAATA AAGGTCCCAT GCTCCACCCG 240
AGGACAGTTC TTCGTGCCTG AAA 263

SEQ ID NO:3481

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04092

SEQUENCE DESCRIPTION:

GATCGGGAAC AAATGNAATC TGTGGATGCA TCAAGCTATC GTCAGTCAAA CCCCTTTAAA 60
ATGTTGCTTT GGCTTTGTAA ATTTAAATAT GTAAGTGCTA TATAAGTCAG GAGCAGCTGT 120
CTTTTTAAAA TGTCTCGGCT AGCTAGACCA CAGATATCTT CTAGACATAT TGAACACATT 180
TAAGATTGA GGGATATAAG GGAAAAATNAT ATGAATGTGT ATTTTACTC AAAATAAAAG 240
TAACTGTTTA CGTTAAA 257

SEQ ID NO:3482

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04093

SEQUENCE DESCRIPTION:

GATCTACATT TTGTACATAT TTATATAAAA TTTACCTTTA AGTATTTACT TTAAAAAATT 60
TAATGGCTTA ACTCGAAGCTT GAAGACACAT ACTTCAACTG TCCTTATTGT CCATTAANCT 120
GATAATTTN ATTTTCCTNG CTTTATAGA TTTNNCTATA TAGGAATCAA GATTTANGAA 180
ATTTTGCATT AAAANTAGTG TACCAATGCT TCATATACGT TAGTTATTTG CTATTATGTA 240
GGGAAGAGGA TTGTN 255

SEQ ID NO:3483

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04094

SEQUENCE DESCRIPTION:

GATCTGAAAT NAGAAATATC CAACATTGCA CGAGTATCTT TTTTATNCC TCCACAGACT 60

CCGCCAGAGA CACCTAGTCC TGATGAAACG TCTGCTCCTT GTCCTAATAT TCATATCAAC 120
AGCACCATTCT CTGGCATTCA CATTTTAAAA ATTATGTGGA AGTGGATAGG AGAACTGCAG 180
CTGTCAATAG CCTAGGGCTG AATTTTGTGTC AGNTAANTAA NATAAATCAT TCATCCTTTT 240
TTTTNGNTTT ATAAA 255

SEQ ID NO:3484

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04095

SEQUENCE DESCRIPTION:

GATCTAGGTG GTTTGTAAAT GTGCATTACT GACTGCATAT GTTTGTGTAT GTGTAAATGT 60
GGGCTCCCTG TTAAGTGGGG CTCATGGATA CGAGGCCTGA GGAAGTGTGG CTTGCTAGTC 120
TGTTACGTTA ACATGCTTTT CTAAAATTGC TTCACGTGTT AATTCATTTA CTCCTGCATT 180
CATTGACTGT TTTTGTTCCT TTCCATTACAC TTTGTACTTA TTTTTCAT TAAATTTTGC 240
ATTTATTTTG AAA 253

SEQ ID NO:3485

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04096

SEQUENCE DESCRIPTION:

GATCCTAGTT CCTTCCTTCC CGAGTGATAC CCATGAACTG CCAGTAGAGG CTGCTATCGT 60
TCCATGTGTA AGGAATGAAC TGGTTCAAGG CGCGTCCTAC CCAGTCATTT TCTTTACCTT 120
ATACTAATTC TTCCTGAATA ATGTCTTCAG TTTCTTGAGG AGACTCCTAG TTTTGGTTTT 180
CAAATTACTT GGAGGGCTGC CTAGGAATCT ATCTCCCTCT GAAATAAAGT TTCCTCATCT 240
TCCACNNTAA A 251

SEQ ID NO:3486

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04097

SEQUENCE DESCRIPTION:

GATCATACGG CCTTCCAGGA GACGCTGGGA TGTAAGATAC TCTTGGAGGN TGGCTCTGAA 60
CTCGGGTGTC TGAATCACAG GGCAAGGGTA GGCCTGGGCT GTGGCTAACA GCAGAGTCAC 120
TTCCCTGGCC TAGCTTGGGG ACCTGGGGAG GAGGAGGTAG CTCTGGACAC CAGGGTTCTT 180
CCCATTGTGG GAGAGTNAGT TTTTtagggg GAGACCTGTC CCCAGATTA AAGAACTGGG 240
AGCCCTAAA 249

SEQ ID NO:3487

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04098

SEQUENCE DESCRIPTION:

GATCAAAGAA GAGAGTAAAG CTATGTCTTC AATTAAATTT CAATACCTGA TTTGTACTTT 60
CCTTGAAAGC TTTACTTTAA AATACCTTAC TTATAGGCCT GGTGTCATGC TATAAGTATG 120
TACATACAGT TTTACTTCAA AAATAAAAAA AAANTCCCTA AAANCTCTCT ATACTCTCTA 180
TAACANTNCT TTATCANGAN CTCTGGNCAA TGGTATTATT TNGGANANTC ATGGTGATGT 240
ATTNTNN 248

SEQ ID NO:3488

LENGTH:245

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04099

SEQUENCE DESCRIPTION:

GATCTGTGTT GTAGAACATG AGGGTGTAAG CCTTCAGCCT GGCAAGTTAC ATGTAGAAAG 60
CCCACACTTG TGAAGGTTTT GTTTTACAAA TCACTTGATT TAACACACTC AGGTAGAATA 120
TTTTAATTTT TACTGTTTTA TACCCAGAAG TTATTTCTAC ATTGTNCTAC AGCAAGAATA 180
TTCATAAAAG TATCCCTTTC AAATGCCTTT GAGAAGANTA GANGAAAAAA AGTTTGTATA 240
TATTN 245

SEQ ID NO:3489

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04100

SEQUENCE DESCRIPTION:

GATCCTGATN ATATTTGGCA GCTGTCCTCC AGTCTTAAAA GGTTTGATGA CAAATACACC 60
TTGAAGCTGA CCTTCATCAG TGGGAGAAACA AAGCAGCAGC GGAAGCCGA GTTCACAAAG 120
TCCATTGCTA AGTTTTTTTG ACCACAGTGG GACACTGGTC ATGGATGCAT ATGNGCCTGA 180
AATATCCAGG CTCCATGACA GTCTTGCCAT AGAAAGANAA ATAAAGTAGC CACTTCTANA 240
AGTAAA 246

SEQ ID NO:3490

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04101

SEQUENCE DESCRIPTION:

GATCCTGGGT ACTGAAAGNC TTAGGAAGC TGGCCTGAGA GGGGAAGCGG CCCTAAGGGA 60
GTATCTAAGA AAAAAAGCGA CCCATTGAGA GACTGTCCCT GAAACCTAGT ACTGCCCCC 120
ATGAGGAAGG AACAGCAATG GTGTCAGTAT CCAGGCTTTG TACAGAGTGC TTTTCTGTTT 180
AGTTTTTACT TTTTTTGTTT TGTTTTTTTA AAGATGAAAT AAAGACCCAG GGGGAGAAA 239

SEQ ID NO:3491

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04102

SEQUENCE DESCRIPTION:

GATCTGGGGA AAGGAGAGAC CATGGTGTGA ATGTAGAGAT GCCACCTANC TCTCTCTAAG 60
GCAGGCCTGT GGATGAAGGA GGAGGGTCAG GGCTGGCCTT CCTCTGTNCA TCANTCTGCT 120
AGGTTGGGGG CCCCNGNCCN NCCATACCTA CGCCTAGGGA GCCCGTCCTC CAGTATTCCG 180
TCTGTAGCAG GAGCTAGGGC TGCTGCCTCA GCTCCAAGAC AAGAATGAAC CTGGCTGTN 239

SEQ ID NO:3492

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04103

SEQUENCE DESCRIPTION:

GATCTGTGTT TCCTCCCCAG TCATCTTTCT TGTTCCAGAG AGGTGGGGCT GGATGTCTCC 60
ATCTCTGTCT CAACTTTATG TGCACTGAGC TGCAACTTCT TACTTCCCTA CTGAAAATAA 120
GAATCTGAAT ATAAATTTGT TTTCTCAAAT ATTTGCTATG AGAGGTTGAT GGATTAATTA 180
AATAAGTCAA TTCCTGGAAT TTGAAAGAGC AAATAAAGAC CTGAGAACCT TCCAGAATCT 240
GAAA 244

SEQ ID NO:3493

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04104

SEQUENCE DESCRIPTION:

GATCCATAAA AGATTGTATT TTTATTACTA TTAAACAAG TGATTAAATT TAGTCTGCAC 60
ANNAGCAAG GGTTCACATG CATTCTTTTA TACTGCTGGA TTTTGTGTG CATCATTTAA 120
AACATTTTGT ATGTTTCTNC TTATCTGTGT ATACAGTATG TTCTTGAATG ATGTTCAATT 180
GTCAGGAGNN CTGTGAGAAA TAAACTATGT GGATACTGTC TGTTTATATT ATAAA 235

SEQ ID NO:3494

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04105

SEQUENCE DESCRIPTION:

GATCGACTGT AAATAGAGGA CTTCTGGAAC ATTCCAAATA TTCTGGGGTT GAGGGAAATT 60
GCTGCTGTCT ACAAATGCC AAGGGTGGAC AGGCGCTGTG GCTCACGCCT GTAATCCCAG 120
CACTTTGGGA GNCTGAGGTA GGAGGATTGA TTGAGGCCAA GAGTTAAAGA CCAGCCTGGT 180
CAATATAGCA AGACCACGTC TCTAAATAAA AATTANTAGG CCGGCCAGGC AAA 233

SEQ ID NO:3495

LENGTH:243

01161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04106

SEQUENCE DESCRIPTION:

GATCATGGAG ACCTGGCTGG TAGCTGTAAC AGAGATGGTG GAGTCCAAGG AAACAGCCTG 60
TCTCTGGTGA ATGGNACTTT CTTTGGTGGA CACTTGGCAC CAGCTCTGAG AGCCCTTCCC 120
CTGTGTCCTG CCACCATGTG GGTCANATGT ACTCTCTGTC ACATGAGGAG AGTGCTAGTT 180
CATGTGTNCT CCATTCTTGT GAGCATCCTA ATNNNTCNNT TCCATTTTNA TGACAGGANG 240
AAA 243

SEQ ID NO:3496

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04107

SEQUENCE DESCRIPTION:

GATCCAGAAC TGAGGTCAC TGGTTCTAGA ACNGNNACAT TTACCTCGAG GCTCTTCCAT 60
CCCCAAACTG TGCCCTGCCT TCAGCTTTGG TGAAAGGGAG GGCCCTCAT GTGTGCTGTG 120
CTGTGTCTGC ACCGCTTGGT TTGCAGTTGA GAGGGGAGGG CAGGAGGGGT GTGATTGGAG 180
TGTGTCCGGA GATGAGATGA AAAAAATACA TCTATATTTA AGAATCCCAA A 231

SEQ ID NO:3497

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04108

SEQUENCE DESCRIPTION:

GATCTGCAGC CAGGCCTTTC TGAAGGNGTT ATTCTGN TAA AAATGGTCTN AGTTNTCTGA 60
AAAGCCAGCT CTTGAACCTC TTCACAACAG TATCAACACT GGCTTCTCCC GGTTTCATNTT 120
ATGCGTGCGA GAAGTCAGTG GTAAC T NCTG CAGGGCTTAA TACATTAGTG GTAAC TGGTT 180
TAAAAAACAA AGACTGTAAG CCTGTGTGTG CCACTGNNNG CTTCAACNGN N 231

SEQ ID NO:3498

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04109

SEQUENCE DESCRIPTION:

GATCCCAGTT TGCAGCAAAC CCCACACCCC AGCTCACACA GCAAAAACAA TGGACAGGCC 60
CAGAGGGTGA AGCAAACAGT GTCCCTTCTG GCTGTNTTGG AGCCTCCCCA GTAACCACCT 120
ATTTATTTNA CCTCTTCCC AAACCTGGAG CATTATGCC TAGGCTTGTN AAGAATCTNT 180
TCAGTCCCTC TCCTTCTCAA TAAAGCATC TTCAAGCTTG TAAA 224

SEQ ID NO:3499

LENGTH:294

01162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04110

SEQUENCE DESCRIPTION:

GATCGGGAAC AAGCACGTTG TACCCTTGGC TGGACATGGC CAAGACACAA GGCATTCCAC 60
GGCGGCAAGC TGACCGCACA GCAGTCTGGC TTGATTTTCA GCCGTCATCA TTGGGTTCTG 120
TTTTGACAGC TCTGCTGCCC ATAGGGACTG CGACTGGGNC CAGGTCAACC ACGCCAGGGG 180
GGTGTACCA GCCTTTTCTT TTTNCTTTC TTTNTTTTT TTCCCCCTA AAGTTGTNNN 240
AAAGCNAANC CNTGGGAATA ATGGTTTNTT TGGANTNAAA CCCANNATTT CAGN 294

SEQ ID NO:3500

LENGTH:221

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04111

SEQUENCE DESCRIPTION:

GATCCAAGTT TGATAACATT GGCATGAATG CCATGGCTAA CAAAGATAAT GCAAGTNTCA 60
AACAGCTTAG ATGGGAGGCT GAACGTGATG ACTGGCTACA CAACAGAGAT GCAAAAANGTA 120
TCATCAGGAA AAGGAAACAT TTAAAAANGA AGAGGNTTAA AACCCTCAA AAANCTAAAA 180
NCCAAGGGAA ATGAGTTATT ANTGTAANTN ATAGNTTAAN N 221

SEQ ID NO:3501

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04112

SEQUENCE DESCRIPTION:

GATCTAATTG TATTAGTATT GTGAATAATC ATGTGAAATG TTTTGAGACA GAGTACTATA 60
TTTGTGAATA TAATNNTATG GTTTTTTCA CTTAGAACCT TTCTGTGTGG AAAACTAAGA 120
AAATTGCTTT CTGCTGTATA ATCTGGCATT CATTGTAGAT TAAAGCTTAT TTNCTGTGA 180
ATAAACGNN NNCAATAAAA TACTATTCTT TAAATTTAAA 220

SEQ ID NO:3502

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04113

SEQUENCE DESCRIPTION:

GATCTGGACA CCCTGTCTCC TGAGGAGCGC CGGGCCAGGC TCGGAAGTN TGAGGCTCAG 60
CTCCAGTCGA GGAAGGAGTA CGAGCAGGAG CTCAGTGATG ACTTGATGT GGAGCGCTAC 120
CGACAGTTCT GGACCAGGAC CAAGAAGTGA CCGTGGCTCC AGCCACCCCG GGACATTGCT 180
AAGATGGGAG GGCTGTTCTT AAATNACTCG TTCTTGAAGC TGCAAA 226

SEQ ID NO:3503

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04114

SEQUENCE DESCRIPTION:

GATCATGCCG AAAAAGTGGC GGAAAAGCTA GAAGCTCTCT CGGTGAAGAN GANNCCAAGG 60
AGGATGCTGA GGAGAAGCAA TAAATCGTCT TATTTNATTT NCTTTTCCTC TCTTTCCTTT 120
CCTTTTTTNA AAAAATTTTA CCCTGCCCCT CTTTTTCGGT TTGTTTTTAT TCTTTCATTT 180
TTACAAGGGA CGTTATATAA AGAACTGAAC TCAAA 215

SEQ ID NO:3504

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04115

SEQUENCE DESCRIPTION:

GATCTNTTCT TAATGTACAT AGTGCTAACA TGAAGACCTT TTTNTGCACT ATATGCAAAC 60
AGGGTAACTA ACTAAAACAA AGCCACTTTC AATCTTCAAT CCTTGAAGGT ATATCTAGGT 120
TTATNACAGT AATTGTNTTT ACATTTNATG GTGCCTAGTA TTGACAAAAT GTTATTTCCC 180
TACATTAAAC ATGACTCCAT AGACCTTTTC AAA 213

SEQ ID NO:3505

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04116

SEQUENCE DESCRIPTION:

GATCTAATGT AAAATCCAGA ACTTGGA CTC CATCGTTAAA ATTATTTATG TGTAACATTC 60
AAATGTGTGC ATTAAATATG CTTCCACAGT AAAATCTGAA AACTGATTT GTGATTGAAA 120
GCTGCCTTTC TATTTACTTG AGTCTTG TAC ATACATACTT TTTTATGAGC TATGAAATAA 180
AACATTTNAA NCTGAATTNN TTAACNTGA AA 212

SEQ ID NO:3506

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04117

SEQUENCE DESCRIPTION:

GATCAGAGAT GCTGTTTCATC AGTCCCAACA AGATGGCCTA GAAATCGCAT TCTCACCTCG 60
CCTTGCTGCT GCTTTAATTC CAAGTCTAT TTCTTCCTT ATAGTTTTCT ATGGGAATGA 120
GGCGGATACA GGAAACACCC TATCTCCTCT GTATTTTGT AGTGGAAATTT CTATTTAAGG 180
GGCTCATTA AGCATAGTAT TTATACACAA A 211

SEQ ID NO:3507

LENGTH:209

TYPE:nucleic acid

01164

TOPOLOGY:linear

CLONE:HUMGS04118

SEQUENCE DESCRIPTION:

GATCGAGATN CAAAGCCACA TNCTCTCTCA CCAAGNTAAA CTATTTANAT TAATTGTTAG 60
CGGTGTTATG CTGCTTTCTT CTTTGACAAG GCCATGACTA AGAAGGCTCT AAGTAAAGGA 120
AGAATCATTT ATTCCATAGT CAGCTAACTG GTAGCAAAGC CTTCTNTTCC AAGACACCAA 180
GGGAGAGGGG AGGACATAAA TTATGCAAA 209

SEQ ID NO:3508

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04119

SEQUENCE DESCRIPTION:

GATCCCCTCT TNAGTCCNCT GCCCCTTCCA AGGACACTAA TGAGCCTGGG AGGGTGGCAG 60
GGAGGAGGGG ACAGCTTCAC CCTTGGAAGT CCTGGGGTTT TTCCTCTTNC GCCCCTTGTG 120
GTTTCTGTTT TGTAATTTAA GAAGAGCTAT TCATCACTGT AATTATTATT ATTTTCTACA 180
ATAAATGGGA CCTGTGCACA GGAGGAAA 208

SEQ ID NO:3509

LENGTH:322

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04120

SEQUENCE DESCRIPTION:

GATCCAAGCA TATAAAAAGC CTNTATATTT TTNAAAAACA CATCTTAACT CCACGCTTTA 60
CGATATTATA AAAGTTGAAT GGTCCTCTT GGTAAGGATA TTTGCTTACA AGTGCTAGGA 120
AATAACTNNC TGATAGCTGC GTTAACATAC TTNGTTTTCG CTAGAGAGGG GCAATAAAAA 180
TGAACCAAAG GATATTTCCA GAAAGGATTA AGAAAGCTGT TTAAGANGGC CATGACTCTT 240
TAGGTGTGTA TGTGTACCTT TCAGCATCCT AGGAATTTN ATACTAAAAG CAAAATGTTT 300
TTCCCAGTTA GTCTTCTTCA GN 322

SEQ ID NO:3510

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04121

SEQUENCE DESCRIPTION:

GATCCGNCCA CCTNGGCCTC CCAAAGTGCT GGGATTACAG GTGTGAGCCA CCGTGCCCGG 60
CCTCTTTTAA TTTATNCCTA AAATATTACC TTGAGGCCAA ATNCTGCGCT TAAGGAGAAT 120
GTGCACCAAG TGCTGGGGTG GGGGCTGGTT ATAAACGAGG CCACAAATNA TGCTTGTAAG 180
TAAATTGTGT GGTTCAAATC TGAAA 205

SEQ ID NO:3511

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04122

SEQUENCE DESCRIPTION:

GATCCCTCAC TTTATTTATA TTCCCACTAT AACCAGTAAG TTCATTTTCAT AGGCCCTATC 60
ATGCATTAAT CATTGNATGN NAGNAGTTAA TGAAAACCTT TCCTGTTACA ACGCCCATG 120
CCGGCAATGA ACGTACCAA ACCGCCAAGG AAGTCATTGT TATTGCACAA TACATGAGGA 180
CCTGGAGCTT TTCCAAAAGC TTAAA 205

SEQ ID NO:3512

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04123

SEQUENCE DESCRIPTION:

GATCTAAAAC GGCTATTTAA TATGTTACAA GGCACCTTGAG TATGGTTGCA TGTCCAAATA 60
TAAATGTTTT TAAATTAACCT CTAACATTTG GTTATAAAAG TTTANCCATA ATAATAGAAT 120
TTTTAAAACA CGNTTGTNTG GTTTAATCTT AGCATATTTT TCCAACCTAAT AAAGCTCAGT 180
ATTCGTCTGN GTTCTCAGNG GAAA 204

SEQ ID NO:3513

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04125

SEQUENCE DESCRIPTION:

GATCTCTCTC ATTCATTTCA ATGTATTTTT ACTTTAAGAT GAACCAAAAT TATTAGACTT 60
ATTTAAGATG TACAGGCATC AGAAAAAAGA AGCACATAAT GCTTTTGGTG CGATGGCACT 120
CACTGTGAAC ATGTGTACCC ACATATTANT ATGCAATATT GTTTCCAATC CTTNCTAATA 180
CAGTTTTTTA TAATGTTGAA A 201

SEQ ID NO:3514

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04126

SEQUENCE DESCRIPTION:

GATCCAATTT ACATCCACAT TTTAGGTNCA ACAGCAAGAA GTTCAGAGAG AGATTTCCTCA 60
ACCAGACATT GGGTCACTCA CTGGTCACCT TGCCAGTNCA TTTTATTAGA AGGGAATCTG 120
TTGTAGCAAA TGGGAATAAA CCTGGGTTTC TATAGACCCA GAACTGAAAA AATAAACATC 180
GTGCTGTTTT TAATTNGAAA 200

SEQ ID NO:3515

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04127

SEQUENCE DESCRIPTION:

GATCTTAGTT TTCTTTTGTT TATTTCCCAG CTCATTTTTT TCTTCTGGTC AGTTTTTTTA 60
AGGGGGGGTG TTGTGGTTTT TTGTTTTTGT TTTGCTTCTG AGAAAGCATT TGCCTTTCTT 120
CCTCTCCCAA CATAACAATC GTGGTAACAG AATGCGACTG CTNGATTTAC CGATGTATTT 180
AATGTAAGTA AAAAAAGGAA AAAAAAGAAA 209

SEQ ID NO:3516

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04128

SEQUENCE DESCRIPTION:

GATCCATTCC CTGCAACTNA AGATTCTAAG GAACTGGGTT TCTCAGTATA CAATGGGAAT 60
GGTTGGNAGG AGGTAAAGAG TAGAAGACAG TATCAAGANT CCAGAGCCCA GCACCTGTAG 120
TCCTAACTAT NCANATTCCT TGAGCCCAGG AGTTTGAGTC CAGCCTGGAC AACATATTGA 180
GACCCCATC TCTCTAAA 198

SEQ ID NO:3517

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04129

SEQUENCE DESCRIPTION:

GATCATGAAT AGGAGCCCAT GCTAGAAGTA CATTCTCTCA GATTTGAACC AGTGAAATAT 60
GATGTATTTT TGAGCTAAAA CTCAACTATA GAAGACATTA AAAGAAATCG TATTCTTGCC 120
AAGTAACCAC CACTTCTGCC TTAGATAATA TGATTATAAG GNAATCAAAT AAATGTTGCC 180
TTAACTTCAA A 191

SEQ ID NO:3518

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04130

SEQUENCE DESCRIPTION:

GATCCAGGCA GCCAAGAAGT TGATGAATGC TGTGGTGCG AGAGTGAAGN CATCCTACGT 60
CGCCTCTACC AAATACCAAA AGTCACAGGG TATGGNTTCC CTCAACCTTC CTGCTGTGTC 120
ATGGAAGATG AAGGCACCAG NGNNAAGCC ATTGGTGAAG AGAGAGAAAC AGGATGAGAC 180
ACAGACCAAG N 191

SEQ ID NO:3519

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

01167

CLONE:HUMGS04131

SEQUENCE DESCRIPTION:

GATCTCCCC AAAGATTCCA GGCAGTGCAA CCCTGCNTGT TCGAGGTGGA GCTGCTCAAA 60
ATAGAGCGAC GAACTGAGCT GTAACCAGAC TGGGGAGGGG CAGGGGGAGA GGCCCCATC 120
AGGGACCAGA CTGTTCCAGA AAAAAACAA AAAACANAAA CAAACAAAAA AACACTTAA 180
AGCCAAA 187

SEQ ID NO:3520

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04132

SEQUENCE DESCRIPTION:

GATCGAGACT CTNCCAGAAA ACAAACAAA ACAAAAAAAA ATCCGTTTCT AAGGACGGCG 60
GGGATTCCGT TCGAGCCCGT GGCTGCTCTG TTTTGTGTTG CTTTCTTGGT ATATAATCCT 120
ANAAATAAAA GGGTAATATA AATATTTNAG AAGAGGGAAA TTGCTGAAGA GTAGTAAGGG 180
CAAA 184

SEQ ID NO:3521

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04133

SEQUENCE DESCRIPTION:

GATCAGATGA CCATTGAGGA CTTGAATGAA GCTTTCCCAG AAACCAAATT AGACAAGAAA 60
AAGTATCCCT ATTGCCCTCA CCAACCAATT GAGAATTTAT AAAATTGAGT CCAGGAGGAA 120
GCTCTGGCCC TTGTATTACA CATTCTGGAC ATTAATAATA ATAATTATAC AGTTAAA 177

SEQ ID NO:3522

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04134

SEQUENCE DESCRIPTION:

GATCCCATCC GAAGCTCAGG GTATGGAGAG CGGGGAGCTC CNCCAAAGAT TCCAGGCGGT 60
GCANCTGGT GTTCGAGGTG GAGCTGCTCA AAATAGAGCG ACGAACTGAG CTGTAACCAG 120
ACTGGGGAGG GGCAGGGGGA GAGGCCCCCA TCAGGGACCA GACTGTTCCA AAAAAAANC 180
AAAAANCAAA ANCAAACAAA AAAACACTTA AAAGCCCCAAA 220

SEQ ID NO:3523

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04135

SEQUENCE DESCRIPTION:

01163

GATCCTACCT AAGGGGCACA ACTAGTAAGG GAGTAGAGCT GAGATTGGCT CCAGAGTTCT 60
 TGTTTTTCAGC CACCATTTTA TGCTGCCTCT CCAGTNATTT TTTTCCCAT TTTCTTCAGT 120
 NTTTCTATAG CAGAGATTTG ATAATAAAAA GAAAATCCTA AACAATGAGA AA 172

SEQ ID NO:3524

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04136

SEQUENCE DESCRIPTION:

GATCGCACTG CGCAGGGGTG CCACGGAGCT CACCCACGAG GACTACATGG AAGGCATCCT 60
 GGAGGTGCAG GCCAAGAAGA AAGCCAACCT ACAATACTAC GCCTAGGGCA CACAGGCCAG 120
 CCCAGTNTC ACGGCTGAAG TGCGCAATAA AAGATGGTTT AGGGTCAAA 169

SEQ ID NO:3525

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04137

SEQUENCE DESCRIPTION:

GATCTCAGGC ATCGGATTAT TTCTCCTGTA AATATTTTCAG AATGTATCTN TCCAAGATGA 60
 GAGCTCATTA AAAGACAATT ACAAAGCTTA TCACATCCAA AAGANTTATC AATAATTTTN 120
 AAATATTATT AANCGTGTA TAAATNTNCA AAGTNCCACT TGCCTTAAA 169

SEQ ID NO:3526

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04139

SEQUENCE DESCRIPTION:

GATCAAAANG AGTNAANCTA TCCAAAAAAA ATTTGTATAT TTGGGAAAAA TGGATTTTAA 60
 CATAGCTTTT GTATGCAGAT ATAAACTGT AATTATGAAT ATAGTGGGCG TAGATAAACT 120
 CATAAGCTTA AATTCTAAAA ANGAAAAAGC TTATACCANG ATAAA 165

SEQ ID NO:3527

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04140

SEQUENCE DESCRIPTION:

GATCAGCCGA TGACAGAGAT TGTAAGCCGT GTGTGAAGC GAAAGTTGGA GCCGCCACGT 60
 GCGGGCNCCTG GTGCTTNANC TGTGCTGTAA CGACGAGAGC GGCGAGGATG TCGAGNTTCC 120
 CTATGTCCGA NACACCATCC GCTGACCCCG TNTGNTCCTN TAGGN 165

SEQ ID NO:3528

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04141

SEQUENCE DESCRIPTION:

GATCCATTTG AAAGTNATT TGACATAAGG AGTAAGGTTA CTACTGATTC CTACTCAGGA 60
GGCTAAANTG GGAGGACCAC TTAAGTATGG NAGGTCGAGG CTATAGTGAG CCATTACTGA 120
GCCACTGCAC TACAATCTGG GCGACANAGC AAGACTCTGT CTAAA 165

SEQ ID NO:3529

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04142

SEQUENCE DESCRIPTION:

GATCCTGTGT TTGCAACTGG GGAGACAGAA ACTGTGGTTG ATAGCCAGTC ACTGCCTTAA 60
GAACATTTGA TGCAAGATGG CCAGCACTGA ACTTTTGAGA TATGACGGTG TACTTACTGC 120
CTTGTAGCAA AATAAAGATG TGCCCTTATT TTACCTACAA A 161

SEQ ID NO:3530

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04143

SEQUENCE DESCRIPTION:

GATCAGTCAT CCACCAGGAA CGAAGATTTC CTGAAGAAGA CCTGGTCCCT CTGGAGGTTG 60
CGGTGGCTGA AGGATGCATC ATGTGCTCCT ACCCTGCTCT ACCGCTTTNT TGGGTCACAG 120
AGGCCAAATG TGAGAGCATT GAATAAATAT CTTAAGCTAA A 161

SEQ ID NO:3531

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04144

SEQUENCE DESCRIPTION:

GATCTCGTGA AGCCCGCAAG GACCGAACAC CCCCACCCCG ATTTAGACCT GCGGGTGCTG 60
CCCCACGTCC CCCACCAAAG CCCATGTAAG GAGCTGAGTT CTAAAGACT GAAGACAGGC 120
TATTCTCTGG AGAAAAATAA AATGGAAATT GTACTTAAA 159

SEQ ID NO:3532

LENGTH:386

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04145

SEQUENCE DESCRIPTION:

01170

GATCCTTACA GTAGAGGTGA CCCCTGTAAT ACCATCTGCT GCCGTGAGGA CCTGAACTCA 60
 CCTAACCCAA GTCCTGGAGG TTNNNNNGAC ACAAAGGTGG CAGATATCTA CCTAGCATCT 120
 CAGTACACAT CCTATGCCAT AAGTGGTCCC ACAGTACAAG GTGGCCTCCC TGTTTTTCGC 180
 TGGGACCGTT TCAACAAAAC TCTACATCAG GGCATGCCAG AGGTCTACAA CTTTGATTTT 240
 ATTACCATGA AACCAATTTT GAAACTTGAT ATAAATGNA GGAGGGAGAT GACGGACTAG 300
 AAGACTGTAA ATAAGATACC AAAGGCACTA TTTAGCTAT GTTTTCCCA TCAGAATTAT 360
 GCAATAAATT TNTTAATTTT GTCAAA 386

SEQ ID NO:3533
 LENGTH:391
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS04146

SEQUENCE DESCRIPTION:

GATCAGATTA AACCATTGAA GTTGAAGTT CATNAGGCTA AGCCTGTNCC AGAAAATCAC 60
 CCACAGTGGG ATACAGCAAT AGAGGGGGAT GAAGACCAGG AGGACAGTGA GGGCTTTGAA 120
 GATAGCTTTN AGGAAGAAGA GGAGGAAGAA GAAGATGATG ACTAAGCAGT ACTCTGAATG 180
 GNCCACAGTG TTTGCACATA TTTNCAATTT TTTNCTGTTT TGGAAGTGTA TCATAAACCA 240
 GAAACAGTAC AGAACTGATG TTGNGGGNGG TGTNGTTTTT TTAGTCTAGA NATGGGTGCA 300
 TAATATNACT AGGCAGTGGC GGTGCCTTGG TNCANCCTGN AAAATGTAA GGCTTTNTTG 360
 AAACCTTTCC AGTNGGGGNT GGTCCNTTNA N 391

SEQ ID NO:3534
 LENGTH:157
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS04147

SEQUENCE DESCRIPTION:

GATCCGCCCC ACTCGGCCTC CCAAATGCT GGGATTACAG GCGTGAGCAT TCAAGTCTGG 60
 CGAGAGAGAT TGTCTCTAGA TGAGGGTGGG GCGGGGTGTC CTTAGCCCAA AGCTTGTGCC 120
 AGTCTCTATC GGAAATAAAT GCCCCCAAAA CCTCAAA 157

SEQ ID NO:3535
 LENGTH:154
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS04148

SEQUENCE DESCRIPTION:

GATCTACAGC AAAACACAGC GGGAGAGGTT CGCCTGGGCT CTCGCCATGG CAGGAGAAGA 60
 CTTTGAATTC TAACGACGAG CCGTGTTGAA ACTTCTTTTG TATGTGTGTG TGTTTTTTTC 120
 ACTATTAAAG CAGTACTGGG GAATTTTGTA CAAA 154

SEQ ID NO:3536
 LENGTH:151
 TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04149

SEQUENCE DESCRIPTION:

GATCTAGGCA ATGATTTAGA GGAAACCTCN TCACAAAAAC CCCAGAGGAA GAATATGACC 60
TGTGTTTCAA ATTTTGCCTT TCTGAACTAT TTAAAATTAT GTGTATGTTT TTGCTTTGTA 120
TTTAAAAGT AAAGCTGCTG TCCTCAAGAA A 151

SEQ ID NO:3537

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04150

SEQUENCE DESCRIPTION:

GATCTATGAA AGCGGGGAGA GGGAACCTGA ATATTAATTA TGAGCACAAA TTTGAAGGAA 60
AGAAAACAAA GAACCATTAT CTAATCAAGC TTTGAAAGTC CTGCATGTTT GCCTTTTATT 120
TTAGTGTTGA CGCCAACATA GACTGTCTAA GGTATTTTTT TCCCCAAACA CTTGAATCTT 180
GGTCGTTGGT ATGTAATCCA CTCTCTAGAG TCCAGTGTAC TTTAGACTTC ATCTGAGTCC 240
AATATATGTA CCACACTACT GTTTTATTAA TGTA AAAACC TTGTAAATGA ATTTCAGATG 300
GGTGATTTAA GTGAGTCACA AGTCACAAAA CTTTGCTATT CATAGTTTAT CTNGN 355

SEQ ID NO:3538

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04151

SEQUENCE DESCRIPTION:

GATCTCTGCT TCCTGTACCT TGACATGCAA AAGGCTCTCC TAATACTCCA CATTCAAAC 60
GAAGAGGAAA ATTGAAATCT CTAATGAAGC TGCTGTGTGT ATTTATGANT ATTAATGAAT 120
AAAACTGCT TGGATGGTTT ACCTTAAA 148

SEQ ID NO:3539

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04152

SEQUENCE DESCRIPTION:

GATCAACAAC TNGNTACTCT CGGGAAGACT CCTCTACTCA CAGCTGAAGA AAATGAGCAC 60
ACCCTTCACA CTGTTATTAC CTATCCTGAA GATGTGATAC ACTGAATGGA AATAANTAGA 120
TGTAATAAAA ATTNAGTTCT CATTTAAA 148

SEQ ID NO:3540

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04153

01172

SEQUENCE DESCRIPTION:

GATCAGAGTA AACAAAAGGA ATCTCAAAGG AAATTTGAAG AAGAAACTGT AAAATCCAAA 60
 GTGACTGTTG ATACTGGAGT AATTCCTGCC TCTGAAGAGA AAGCAGAGAC TCCCACAGCT 120
 GCAGAAGATG ACAATGAAGG AGACAAA 147

SEQ ID NO:3541

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04154

SEQUENCE DESCRIPTION:

GATCGTGGCG CATGGCTTGG GGATTAACT ACCCTTGANG AGGACCCTTG TCCCAAACCC 60
 TTCTTGTCT CTCCTCCAAA AGTAGCTTCC TCCAACCCGC AGCCTCTCTG CACACTAATA 120
 AAACATGTGG CTTGAAAAGG TTCAA 146

SEQ ID NO:3542

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04155

SEQUENCE DESCRIPTION:

GATCTTTAAG GACAAGTTTA TCCAGCATCC AAAAACTTT GGACTAATTG CATCATACTT 60
 GGAGAGGAAG AGTGTTCTCG ATTGTTTTTT GTATTACTAT TTAACCAAGA AAAATNAGAA 120
 TTATAAAGCC CTCGTCAGAA GGN 144

SEQ ID NO:3543

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04156

SEQUENCE DESCRIPTION:

GATCTGGGTT TTNATATCTT TATCTTCATT CAGTGAAGCA AGCCAAAAGC NCACATTTGT 60
 ATGCNTTAGG TCTTCTTAAA ATGGTATCTG TAAACATGTG TCCAATATAA AANCTATTTT 120
 NAATAAAANG TTACATGAAA 140

SEQ ID NO:3544

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04157

SEQUENCE DESCRIPTION:

GATCAGCAAT GAAGAACTGG NCGGACAAAA TTNAACGTTN ATGTAATGGN ATTCCAGATG 60
 TAGGCATTCC CCCAGGTCT TTTTCATGTGC AGATTGCAGT TCTNATTCAT TTGAATAAAA 120
 AGGAACTTGG AAANCAAA 138

SEQ ID NO:3545

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04158

SEQUENCE DESCRIPTION:

GATCTAAATG GGCCAGGTG TTTACCCTTA TNTNGTTTC TGCTAAATNA TGGAGGTTG 60
GGGAGTTCCT TCTCCACTTG TTTGTGGAGG CCTGGGGAGT TTTNNAGAC CCCCAGTAA 120
ACTNGTTTAA TCCTAAA 137

SEQ ID NO:3546

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04159

SEQUENCE DESCRIPTION:

GATCCCTGTA GAGGTGGTAT TAAAGATGGT CACTGAGATT AAGAAGATTC CTGGTATTTT 60
TCGAATTATG TATGACTTAA CATCAAAGCC CCCAGGAAC ACTGAGTGGG AGTAATAAAC 120
TTCTTGTTCT ATTAAA 136

SEQ ID NO:3547

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04160

SEQUENCE DESCRIPTION:

GATCCTAAAA TNNTCTACTT TTGTNGCCTT ATCAGTNCTT TGCAATCTGC CTGTGGTTAT 60
CAGCACTTAA AGCACAATTT TGAAGGGGAA AAAAATGATA ATCACCTTAG TCCCAAAGAA 120
ATAATTTGTC ANNCN 135

SEQ ID NO:3548

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04161

SEQUENCE DESCRIPTION:

GATCTGGA CTGGGAGT GGGGAGGGCG TGGAGACAGT CTACGGAAAG CGCTANAGGA 60
CCCCGAGAG GGTGCAGTGG AGCCCTGAGC ATTGTAATAT GCGGCCAGC CTATAAACAG 120
CCTCCGTGCT TAAA 134

SEQ ID NO:3549

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04162

SEQUENCE DESCRIPTION:

GATCCTTTGC TGTAAGCTNG GAGAGACCAG TCCCAAACAG AGGGGAATTT TAAGCCCTTC 60
TCATCACCCA ATGGGATGTT TTTGCTTATA GCAAATTCCT GCAAAATAAA TAAATAAATA 120
TTTGCAAAAC TAAA 134

SEQ ID NO:3550

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04163

SEQUENCE DESCRIPTION:

GATCTATGGG AAGATACTTA TTTTCTGAG GTCCTTATGT CCTGTCATAT AATTAAAGAC 60
TCAAGAGAAT TTATGTGAAA TGCTTTCTGT ATGCCCAAAT CTTTAGATTA AAATTATATA 120
GCTGCTCCTG AAA 133

SEQ ID NO:3551

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04164

SEQUENCE DESCRIPTION:

GATCTCAGTT CCNTAAAAAA TGATAAAAT TTTTCATGTA TATTACATAT CTACCTACCA 60
GAAATCCTTT TTACAATTTT ATATACAATC ATTTTAAGAC CTTTTTGAAA TAAATAATGC 120
AAATGAACTA AA 132

SEQ ID NO:3552

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04165

SEQUENCE DESCRIPTION:

GATCACGGGG TGGNAGGNAA CCGNGGCGTC CCTGCNTGGG GCCCATGGGT GANACACTCC 60
AGTACTGAGA CCTAGAGTCC AGATGCTTGT AGGAGCCAAG TCGTGTTCTA AGTATTTATT 120
TAAACAAAA GAATCACGTT TTCCCATTG TAAA 154

SEQ ID NO:3553

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04166

SEQUENCE DESCRIPTION:

GATCCTTAAT TGTAGCCTTT GAAGGATGCC CTGTGTAGAT TATTCAGTGC CACAAATTGA 60
AAGCTTCCAT GTTTAATNTT ATCCTCTTGC TATATAAATA AAGCAAATAT ATTTAGGCCA 120
GGGTCTCACT GAGGGGGAGC TGTCTTGCA TCTTTTAGAG TAACTATTC TATAACATA 180
TGCAACAGC CCTAAATAAA TCTAAAGTCT AAA 213

SEQ ID NO:3554
LENGTH:125
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04167
SEQUENCE DESCRIPTION:
GATCCCAAGG GCCCAGATAA CGCCCCAAC TTCTTGGGGT TCACACGCGT CCTGAGACAT 60
CTGGGAACTG CCTCTGCCTG GNCCAAAGCT ATTCCATTAA AACTTTATTG CTGTNCTTAC 120
TCAAA 125

SEQ ID NO:3555
LENGTH:127
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04169
SEQUENCE DESCRIPTION:
GATCTGTGTA CAATTTTNGT CACTANGACT TTCCTCCAAG AACTAAGCCA ACTTGATGTN 60
NCAAAGCACA GCTGTATATA ATGGTGATGT CATAATAAAG TTGTTTTATC TTTAAGTAA 120
AAGTAAA 127

SEQ ID NO:3556
LENGTH:126
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04170
SEQUENCE DESCRIPTION:
GATCAAGGAC TCTGGATAAT TGGCATAACA TCCTGGAATA GCTGAAACAG AGATATTATT 60
CTCTGCTGTC CTCTGTTGTC TTTGTCTTTT CACGTCTTAA TAAAAGTGCT GGTGACAAGA 120
GTGAAA 126

SEQ ID NO:3557
LENGTH:123
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04171
SEQUENCE DESCRIPTION:
GATCAGAGCC ATACCCCTCT TCACCAATGG GAAGTCAAGA CACCTATGGG TAAAAGTTCT 60
CTCTGATGCA TGAAACTCA GAGTGATAAA GTAATTTTAA AATAAAAATT TGGAGAAAGC 120
AAA 123

SEQ ID NO:3558
LENGTH:121
TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS04172

SEQUENCE DESCRIPTION:

GATCTAAAAG TTTTCACACA TAAATTTTCAT TAATTTGAAA GATTATTTTTT AAACGTGCATA 60
GGTCCACTTG CCTCTAAATA AAATNAACCT AAAATAAAAA CAAACTATAC TTTGTGAGAA 120
A 121

SEQ ID NO:3559

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04173

SEQUENCE DESCRIPTION:

GATCTCCCCC ACCCCACAA AATGCTTAAA AGATAACTTA GCTCTTTNTT CAGGGCTCAG 60
TCCTTTGGAT GTAATCCGAC TAGGCCAGTN AACCTAAATA ATAAATATCC TCCTCAACAA 120
A 121

SEQ ID NO:3560

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04174

SEQUENCE DESCRIPTION:

GATCCTGAGT TTTCTGGGAC AATTCAGCT TTAATCAATA CATTTTGTGA AATGTGCCAT 60
AAAATGAGAC TTTTACGCC TTTATAAGGC CTTAGATGTA AATAAACTCA CCCAAACAAA 120

SEQ ID NO:3561

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04175

SEQUENCE DESCRIPTION:

GATCATTGTA TTCAGAGATT GTAAATGAAA AAATATAGAA ACTATTTAGT TTTGGTAGAT 60
TTTTTTTCTG ACAATGTGAC CAGACTGAAT TTCCTCATAA AGAAAAAATG GCGTGCAAA 119

SEQ ID NO:3562

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04176

SEQUENCE DESCRIPTION:

GATCCCAGCA TTTTCCATCG ACTTGTAATT GTTTCTGCTA CCTGACAATC ATCGCCTTGA 60
GTACTGGGAC AACCTTTGAT TACTCATTAT ATCCTCAATA AATATTTGTT GAACTAAA 118

SEQ ID NO:3563

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04177

SEQUENCE DESCRIPTION:

GATCCTGGCT AGANTGNTAA TAAAAAGTAT TTAATTTGAA GCACCATTN ANTGTTCGTA 60
CTAGTAGAAA ATGATGTGAA TTTCTTTCT GTTCGGCTCC TATTTTCCTC ATCATTTN 118

SEQ ID NO:3564

LENGTH:82

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04179

SEQUENCE DESCRIPTION:

GATCATAGTC GGGCATACTT ATCTATATCC NTAACCTCTA TATCTTTAAA TAAATGTGAG 60
NACTGTTCTC ATGGAGANGA AA 82

SEQ ID NO:3565

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04180

SEQUENCE DESCRIPTION:

GATCTAAAGC NTTTNTGTCA GATTATTTAA TATNATGACT TCATGCTTTA TTATGCCTTA 60
TNATGGCTGA CGTATTACTG TGGTGAAACA AAATATCTTT AAAAGTTAAA ACATCCAGAT 120
ATATAAGCAA TTTTNCCTA AGGATAAAGT ACCTTTAAGC ATGAGTGTAT CACAGCTTTC 180
ATTAGGNAAA CTTTTCATTA CATACTTGTT TAAN 214

SEQ ID NO:3566

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04181

SEQUENCE DESCRIPTION:

GATCCCNAA TGTGTATGAA TGACTGAGGC TTTGTAAATT AAGGGACGTT TGTTTGAATA 60
AAGTTATTG ATGGGGTCAA AGAAGCCATA TGTGATTGA AA 102

SEQ ID NO:3567

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04182

SEQUENCE DESCRIPTION:

GATCCTCTCC TTAGTCTTAG CTCATGGGGC TCTTTATAAA GGAGTTGGGG GGTAGAGGCA 60
GNAAAATNGG AACCGAGCTG AANGCAGAGG CTGAGTTAGG N 101

SEQ ID NO:3568

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04183

SEQUENCE DESCRIPTION:

GATCTGCAGT GCTTCACTGG AAATAATTTA TTCATTGCAG ATACTTTTAA GGTGGCATT 60
NATTCATTTT CTGTGCTTTA AATAAACAAA TGTACCAAA 99

SEQ ID NO:3569

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04184

SEQUENCE DESCRIPTION:

GATCACCTG GGCACATGTT GTCAGGACCT CCTGGGGTTG TGTCATGGAT GCGTGTCTC 60
AACCTTAGCA AAATAAACTT TCTAAATTAC TGAGAAA 97

SEQ ID NO:3570

LENGTH:95

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04186

SEQUENCE DESCRIPTION:

GATCTTCAGT GTGTCTGCAT AAGCTAACTT AAGATGAATT TAAGTACANN TTTCTGAAAT 60
ATTTCTATTG AAATAAATTA CTTAAAATTA NNAAT 95

SEQ ID NO:3571

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04187

SEQUENCE DESCRIPTION:

GATCTTTGTG AATTCTATGA ATGTATTAAG TTATCATATG TACTCCCCAA AATAGGTACA 60
TCTATTATGT ATCAATAAAA AANTTTAAAA CAAA 94

SEQ ID NO:3572

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04188

SEQUENCE DESCRIPTION:

GATCCCTTGA GCCGAGGAGG TTGAGGCTGC AGTGAGCTAT GGTCACACCA CTGCACTCCA 60
GCNTTGGTTA TNATGCAAGA CCCTGTTTAC AAA 93

SEQ ID NO:3573
 LENGTH:89
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS04189
 SEQUENCE DESCRIPTION:
 GATCGCACAC CTTTGCAACA GATGTGTTCT GATTCTCTGA ACCTACAAAA TAGTTATACA 60
 TAGTGGAATA AAGAAGGTAA ACCATCAAA 89

SEQ ID NO:3574
 LENGTH:90
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS04190
 SEQUENCE DESCRIPTION:
 GATCAGTGTC TCTAGTCCTA CCCAGTTTAA AAGTTCATGG TAAGATTGGA CCTCATCTCC 60
 CTCAAATAAA TNTATTGGTG ATTTTNGAAA 90

SEQ ID NO:3575
 LENGTH:87
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS04191
 SEQUENCE DESCRIPTION:
 GATCCGCCAG GTGCGGGCGC TACTGCAGGC ACAGCAGGCC TAGGTCCTCC CACACCTGCC 60
 CCCTAATAAA GTGGGCGCGA GAGGAAA 87

SEQ ID NO:3576
 LENGTH:87
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS04192
 SEQUENCE DESCRIPTION:
 GATCCACCCA CACCTAAGTC ACAGAATTTC TAAGTTCCCC AACTACTCTC ACACCCNTTT 60
 AAAGATAAAG TATGTTGTAA CCAGAAA 87

SEQ ID NO:3577
 LENGTH:83
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS04193
 SEQUENCE DESCRIPTION:
 GATCAAACTG AATGAAACCC CCACACACAC ACACATGCAT ACACACACAC ACACAGCCAC 60
 ACACACAGAA AATATACTGT AAA 83

SEQ ID NO:3578
LENGTH:83
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04194
SEQUENCE DESCRIPTION:
GATCCCTATT CTGCGTGTAT GTGTTTGCAC ATGAGTGTTT GTAGACCATA GACCATTAAA 60
AAATACGGAA TTCAAAAGTT AAA 83

SEQ ID NO:3579
LENGTH:84
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04195
SEQUENCE DESCRIPTION:
GATCTATGAA TGTTTTNTT AAAATTTACA AAGCTTTGTA AATTAGATT TNTTTAATAA 60
AATGCCATT GTGCAAGNTT TAAA 84

SEQ ID NO:3580
LENGTH:112
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04196
SEQUENCE DESCRIPTION:
GATCACATAA AGGCAAGAGG ATACTTCATG AATAATACAT TTNAATGCAA ATAAACAGAT 60
GGTTCACTTC TACTAGCTAT NNCCCTGTCT TNNTATACAC TGAGTAGATT AN 112

SEQ ID NO:3581
LENGTH:74
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04197
SEQUENCE DESCRIPTION:
GATCTATGTC TGTTGGTGGC AATGTGAGGG TGATACTCTC TCACTCTAAT AAACCTGGCA 60
CTTCTCCGAG TAAA 74

SEQ ID NO:3582
LENGTH:74
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04198
SEQUENCE DESCRIPTION:
GATCCTGTAT GTGTGTTGAG ATTTAGAGGT TTCATTTATN TTGTCTGCTA ANAAATTGTT 60
ACTCTAATAA TAAA 74

SEQ ID NO:3583
LENGTH:71
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04199
SEQUENCE DESCRIPTION:
GATCACTGTA TAGACTGTTA AATTTGATTT CTTATTACCN ATTGTTAAAT AACTGTGTG 60
AGACAGACAA A 71

SEQ ID NO:3584
LENGTH:71
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04200
SEQUENCE DESCRIPTION:
GATCTATTTT TCTGTCTACT TTGGANATGA TTGCATAATA AATAAAATTT TACTGTTTTT 60
TTAAAAGGAA A 71

SEQ ID NO:3585
LENGTH:69
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04201
SEQUENCE DESCRIPTION:
GATCTAAAGA TGTTTAGGGA AGAGCTCGAC TAAAGAACAA TGAAATAAAT GGTCCAAGGG 60
GAAGTCAAA 69

SEQ ID NO:3586
LENGTH:65
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04202
SEQUENCE DESCRIPTION:
GATCAAAAAT GTAAGTCTAT TGGTAGAGAT TAAGTAAAGT ATTTATTGCT ACATCATAGT 60
TGAAA 65

SEQ ID NO:3587
LENGTH:53
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04203
SEQUENCE DESCRIPTION:
GATCTGTGTT GCATTTCAAA ATAACTGGT GTGTGCTCTG CCTGGATTG AAA 53

SEQ ID NO:3588

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04204

SEQUENCE DESCRIPTION:

GATCTCAGCC CAGGACGNCA AGCAAGCAGG TCTTGTCAGC AAGATTTGTC CTGTTGAGAC 60

ACTGGTGGAA GAAGCCATCC AGTGTGCAGA AAAANTTGCC AGCAATTTCT AAAAATTTGT 120

AGTAGNCGAT GGNCNAAGNA TCAGTGGATN CAN 153

SEQ ID NO:3589

LENGTH:29

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04205

SEQUENCE DESCRIPTION:

GATCCAAATA AAGGTAGCTG CTGACCAAA 29

SEQ ID NO:3590

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04206

SEQUENCE DESCRIPTION:

GATCTCTCTA CAAGAGCCCC TGCCCCTCTG TTGGAGGCAC AGTTTTAGAA TAAGGAGGAG 60

GAGN 64

SEQ ID NO:3591

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04207

SEQUENCE DESCRIPTION:

GATCCTTTGC GTGACAGTCT TGTATGAAAA ACAGATGCTG ACAGAATTGT AGACTACCAT 60

NCCN 64

SEQ ID NO:3592

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04210

SEQUENCE DESCRIPTION:

GATCTCGCCT TGTTTCTTAC AAGCAAACCA GGGTCCCTTC TTGGCACGTA ACATGTACGT 60

ATN 63

SEQ ID NO:3593

01183

LENGTH:63
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04211
SEQUENCE DESCRIPTION:
GATCTTTGCG AATTACAATG CATATATGTC TATTTATTCA ATATCTGTCA TATAATANCT 60
ATN 63

SEQ ID NO:3594
LENGTH:58
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04213
SEQUENCE DESCRIPTION:
GATCTTAAGA AAACCTCATA CTGTATGAAT AAGAAAATAA AATATTTAAA ACTTGAAA 58

SEQ ID NO:3595
LENGTH:64
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04214
SEQUENCE DESCRIPTION:
GATCGCCAAG TTCAAAGCTG TGCACATGTG GACACTCAAT AAATGTTTCAT TGGTGAAAAA 60
CAAA 64

SEQ ID NO:3596
LENGTH:56
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04215
SEQUENCE DESCRIPTION:
GATCCAAAAA GAGTCGACCN GCATTNTTTA TATTAAAAAT AAAGTCAAGA TTAAAA 56

SEQ ID NO:3597
LENGTH:52
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04216
SEQUENCE DESCRIPTION:
GATCTTTGTT AATGTCTTGA TTCTGTTCGC AAAGCACAGA CTAGTGCTTA AA 52

SEQ ID NO:3598
LENGTH:52
TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS04218

SEQUENCE DESCRIPTION:

GATCGCACCA CTGAGCTCCA GCCTGGGCAG CTGNATGAGA CTNCATCTCA AA 52

SEQ ID NO:3599

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04219

SEQUENCE DESCRIPTION:

GATCTGGAGG GACACACAGG AGACACCTGG CATAACCAAA AAATGATTAA A 51

SEQ ID NO:3600

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04220

SEQUENCE DESCRIPTION:

GATCGAAAAC ATATAGANAA AATAAAATGT GTGGTTGCAC CTGTACTGAA A 51

SEQ ID NO:3601

LENGTH:466

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04247

SEQUENCE DESCRIPTION:

GATCTAGAGG AGGATTTGCA GGAAGAGCTC GTGGAAGAGG TGGTGACCAN CAGAGTGGTT 60
ATGGGAAGNT ATCCAGGCGA GGTGGTCATC AAAATAGCTA CAAACCATAC TAAATNATTC 120
CATTTGCAAC TTATCCCCAA CAGGTGGTGA AGCAGTATTT TCCAATTTGA AGATTCATTT 180
GANGGTGGCT CCTGCCACTG CTTAATAGCA GTTCAAACTA AATTTTTTGT ATCAAGTCCC 240
TGAATGGAAG TATGACGTTG GGTCCTCTG ANGTTTAATT CTGAGTTCTC ATTAAGAGAA 300
ATTGCTTTC ATTGTTTTAT TTCTTAATTG CTATGCTTCA GANTCATTTG TGTTTTATGC 360
CCTTTCCCCC AGTATTGTAG AGCANGTCTT GTGTTAAAGC CCAGTGTGAC AGTGTCATGA 420
TGTAGTAGTG NCTACTGGTT NTTAATAAA NCCNTNTTGT ATGAAA 466

SEQ ID NO:3602

LENGTH:429

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04248

SEQUENCE DESCRIPTION:

GATCTATAAA TCAAGAAAAT CCATTGTCAT AACCATTTTT AAAAGTCAAT AATTAAGACA 60
TCCTTAATTA AAAAGTTTCA AATCTAGACA CTAATGTGT GTGAATGTAC AAAGAAAACA 120
AACCATTGCT TATGCTGTTA TATACTAGAG AAATTTTGT TTGCTTGCTG TTTTAACTTG 180
ACAGATGAAG GACTTTAGTT GAACCTCATA TTGTAAGAAC TGTTAATAAA AGTTGTCAAG 240

TAAAAAGCGC TATATCTAAA AAGACTTTAT GAACAGTTAT TCTATCAACT TTAAAGGGT 300
 TTAAACCTG CCCAGAAATT ACCTTGGTAT CTGAAGTTTC CCTCTGTCTC CTCCCTCTAA 360
 TTNAGGCTTG TTATTTGTCA TGCACCAGCA TTTGGGGGNT AATAANAATT TCTTNGGTTC 420
 TNGTGAAA 429

SEQ ID NO:3603

LENGTH:419

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04249

SEQUENCE DESCRIPTION:

GATCTGTTGT TTGTTTTTAA GGTGGTGTTC TGTTAACTTC CAGCAGGATG CAGAATCTAA 60
 CTGGTAAACC TATAAATTGG TCAAATTTNA CCCATGTTGT TTCTTTGAAA ACAATGTATA 120
 TNCTCTAATA TTTGGATATA GGGTATATGA NCATTAATGC AACTTAATTG TATTTCCAAG 180
 TACAGTACAT ATGTNCAGAT TTCTTTTTCT AACCTTATTT AGTGATAGAG GTGTGGTAAA 240
 CNCTTCCATT ATGTTTATGT ATTANCACTG TAATTTTGTG ATTTTNATAT ATTTNGATGT 300
 TATGTAAC TA GATGCATACA GGATTAGTA TTTCTTCTG TATTCCTTTT TATGTGGAGA 360
 TGATATTTTT ACATAGCAAA GTATTGTAAT GCATTAATAA TAAATGGTCA ACCATTAAA 419

SEQ ID NO:3604

LENGTH:419

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04250

SEQUENCE DESCRIPTION:

GATCTGCTAG TTCCAGGCCT CTAAGACAGG AACGTATGTG CCATAAGTGN GTCTACTTCA 60
 CAGACTCAAT GAGGCAGAAA TTATTGTAGT TTTCTCCTAT TTCTTCTGCA CCCAACTTTC 120
 TNCTTGATTT TCAAAGGCCA GGCCATGTAC ACTAACGTCC TTGAAATTTG CAGTTCTGTA 180
 TGCTTCTATT CCAAATCATT CATTACCAAT AAAAACGGAA TACCACCCTT TCCATTTTAT 240
 AGNCCTCATC CCCTATTTCT GTCAGACAGT TATATGACAG GGTGGNCNGN GGGCCTCTTA 300
 GTTCATCCAA AGTCTNNCT GNAGTGCTAG NCTTTGAGAC TCTTATCACT GGAAATCNTT 360
 AAGGGTTGAG GGGGNTTAN TTTCCAGNA CTTGTGNAGG GNTTCAACTG TCAAAACTN 419

SEQ ID NO:3605

LENGTH:404

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04252

SEQUENCE DESCRIPTION:

GATCCGACAC AGAGAACAGG AGGNACTAGA GGCGACANAN AGNAGGGCTT TAAGCCAAAC 60
 TACATGGAAA ATGGTGATAA AAGAAAATNT GGCTGAAGTT ACCCGAAGTT CAGCTTGCGA 120
 TGTAATTCAG AAGAGTTAAG ACCAGAAGTA CTGGAATCAT ACTTCCTTTC AGTCTTGCCA 180
 CTTGCCTAGT GAGGCTTTTC CGAACCTGGA AGGAGACGTC TAGAAATCCC AACTTTGCTG 240
 TGTAAGGACC ATTAGCTGCA AGTCAGTGGA AGTCTATAGA AAANAGTGTG AATTCCATAG 300
 TGGTCTTGAC TTCTTAGCAA GGATTTGGGA TAAGTCTAAA ACTTCAGACT TAAAGCTTTG 360

AAGCATGTTA ACTGCATGAN ATATTAANCA TTTCGAACTT CAAA

404

SEQ ID NO:3606

LENGTH:403

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04253

SEQUENCE DESCRIPTION:

GATCCATGAA TTAACAGAGG CATATATTTA AAATGAAATT TAATGAGCAC TTAGTGA CT T 60
CATTTGTTCA AGAATATTTG ATTCCTATT GTGTGCATGG GAGGTTTACA AAAGACAGAC 120
TGTCCTATG CTTGTNCAGC TTACAATCTA TTAACTATT AGAGGCCCTG TGAGATGTAG 180
GCAGTTATTT ACAGATGAGA AAATAACAC AGCAGTGGCA ATGCTGGGAA TGGCCAACAG 240
GCTTGGAATT CAACTCAGTT TAGCACCAAA GCCAGTNCTA TTAAGACCTG AAGTTCAACA 300
GTGGATTCTT TACCCAAATA GTTTTTAAAG TATGCTCTAA GGNCCAATGT TTTAATGAA 360
ATCTTGGNTT NCAAGTNGG NNTAAAAGGG TTCTGAGCAT AAA 403

SEQ ID NO:3607

LENGTH:396

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04256

SEQUENCE DESCRIPTION:

GATCTTACTT CGTTGACCCA TATTTTCCCT CTGACCAAGT TACCTGTAAA CTGGAATTTG 60
CAAGGGGATG CTGTGATGAT AACCCCTTTC TATTGCTGTA ATGTTTCATAT AACCTGGGAA 120
ACTGAGAGAA GGGGATGTGT AAATAAAAGC TTAAACATTT TAGTAATGTG TTAATAATGTC 180
ACTCTCTCTT ACCCTGTTTC CCTTTTTTGC CAGATGATGA TTTTTTTATT TTTATTTTGT 240
ACTTTACTGG ATGACTGTGA AGCGNTGAGT ATTGGGTTGG GGTAGGTGTG TTGATTTTGA 300
GAGTGCATGT TAAGACCTGA AGGGGAACCT CTTGAGGATG ACTTAAGAAG CATCCCATGC 360
AAATATCTTG TTTTGGCCNG AATAAAATAT TTCAAA 396

SEQ ID NO:3608

LENGTH:392

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04257

SEQUENCE DESCRIPTION:

GATCTGCCCC CTTGGCCTC CCAAAGTGCT GGGATTACAG ACATGAGCCA CCACGCTTGG 60
CCGGGATAGT ATATTTTAT AGCACTTCCC CTACTGATTG CTGCCTTCTC TGTGGCTACA 120
AGGGACCCAC AGAATTACAG GGAAGTTACA GGGNNGCAGG TTTCATCTCA ATATTGGGAG 180
AGATTTCAAA CAATCACACC NNNNNNCGA AGGAGTGGGC TGTCCTAGG AATTTTTTATT 240
CCCAGTCCGT CAGGAATTTT GTAGAAGGCG TTCATGTGCT GGTACCAATA GGACAGGAAG 300
ATTTTAATCA GCTTTACTAT CTATGTTTTT TTATGGAAAC TGTGTGTATG TATACATACA 360
TTTTCAAAA AGNANAAATT AAATGATTAT AG 392

SEQ ID NO:3609

01187

LENGTH:392

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04258

SEQUENCE DESCRIPTION:

GATCCGCCCC CCTCCGCCTC CCAAATTGCN GGGATTACAG NCCTNAGCCA TNCCCACCCG 60
GCCAATAAAA ATTTTTTTAA AGCTAAAATT GACTCTCATG CAAATAAGAT AAAATGAACA 120
TATGTTAAAT ATTTTAACTT AATGAGAGAA ATAGTAAGAT GTTACCAGTT ACTTGATGAT 180
GGAGGAAAGG ACGAAAAGCC AAGGAATACA TGGAATGCAG CTCTAGGTGC TGAAAAAGGC 240
ANGGAAAGGT TCTACGTTAG NGCTTCCAGA GGGAGCTCAG CCCTGTCANC ANCNTNGTTT 300
CAGCTCAGTC ATATCGNTGT TTAGACTTTC TGGTCCCCAG NGCTGGGCGG GGGATATATT 360
TCCTGCTGTT TTAAGNCNCC NNATTTTGTG GN 392

SEQ ID NO:3610

LENGTH:391

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04259

SEQUENCE DESCRIPTION:

GATCCTAAGG GGTTCAGGGG GACCCCTACCC CCACCTCAGG TTGGGCTTCC NTGGCCACTC 60
ATGCTCCACA CCAAAGCAGG ACACGCCATT TTCCACTGAC CACCCTCTAC CCTGAGGAAA 120
GGGAGACTTT CCTCCGATGT TTATTTAGCT GTTGCAAACA TCTTCACCCT AATAGTCCCT 180
CCTCCAATTC CAGCCACTTG TNAGGCTCTC CTCTTGACCA CTGTGTTATG GGATAAGGGG 240
AGGGGGTGGG CATATTCTGG AGAGGAGCAG AGGTCCAAGG ACCCAGGAAT TTGGCATGGA 300
ACAGGTGGTA GGAGAGCCCC AGGGAGACGC CCAGGAGCTG GCTGAANGCA CTTTTGTACA 360
TGTAATGTAT TATATGGGGT CTGGGGCTCC N 391

SEQ ID NO:3611

LENGTH:386

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04261

SEQUENCE DESCRIPTION:

GATCCGACCG CGTGNTGCCG CTCTGCTCTC TCATACGCGT GTATGTTTGG TTCCATGTCA 60
CAGCCCCCTA GGAGCCAGTN ATGCTCGGCC TTGCGCCCGT NCCACCTCCC AGGCCACCCT 120
TCCTGGGCTT CTGGGCCACC TGCCCTCGGG GGGCCCTGC NAGGGTGCCT GGNGTTCCCA 180
CGTGTCCCGG GGCTTTTCCA GGAAGCCCGA GCCCAGGACC TGTTGGCAGA GTTGCCAGGG 240
TTACATTTTT NAAGCACCTG CTCCTTTTNT TGCAGTGTAT TTTCTACAAC CAGATTGTAT 300
TAATATTTTT AACTTTGCC TTTTAAAAA TATACCTAAT ACAATATATT TAATTNTGAA 360
TTAAACTCTT AAACCTTTCT TCCAAA 386

SEQ ID NO:3612

LENGTH:375

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04264

SEQUENCE DESCRIPTION:

GATCCCTTTG GGGCATGAAG TGTGACAAGT GTGGGCTCCT GAAAGGANTG TNCCAGAGAA 60
ACCAGCTAAA TCATGACACC TTCAATTTGC CATCATGACG CAGACCTGTA TACATTAGGN 120
TAAATCTGAA TTTCCACTGC TTTGGAGAGT CCCACCCACT AAGCACTGNG CATNNAACA 180
GGTTCCTTTG CTCAGATGAA GGAAGTAGGG GGTGGGGCTT TCCTTGTGTG ATGCCTCCTT 240
AGGCACACAG GCAATGTCTC AAGTACTTTG ACCTTAGGGT AGAAGGCAAA GCTGCCAGTA 300
AATGTCTCAG CATTGCTGCT AATTTTGGTC CTGCTAGTTT CTGGATTGTA CAAATAAATG 360
TGTTGTAGAT GGAAA 375

SEQ ID NO:3613

LENGTH:372

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04265

SEQUENCE DESCRIPTION:

GATCCTAGAC CAGCATGCCA GTGTGCCAAG GCCACAGGGA AAGCGAGTGG TTGGTAAAAA 60
TCCGTGAGGT CGGCAATATG TTGTTTTTCT GGAACCTACT TATGGTAACC TTTATTTAT 120
TTNCTAATAT AATGGGGGAG TTTCGTAAGT AGGTGTAAAG GGATTATAT GGGGACGTAG 180
NCCGCNNTCC CNNGTGTTGT AGGTTTCTCT TTTTCAGGCT TATACTCATG AATCTTGTCT 240
GAAGCTTTTG AGGGCAGACT GCCAAGTCCT GGAGAAATAG TAGATGGCAA GTTGTGGGT 300
TTTTTTTTTT NACACGAATT TGNGGAAAAC CATTAANTCA TTCAAATAA TAANCTNTTT 360
TTATTNGGGA AA 372

SEQ ID NO:3614

LENGTH:372

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04266

SEQUENCE DESCRIPTION:

GATCTAAATA TATATTTTGT ATATTATAAT ATTTTAGGAA TAGCTTAATT AAGANCTCAC 60
AGACTTTGAC AAAGTGGTAA CTAGACTTTT AATTACTAGA TTCTTCAAAT TAGGCTTAAT 120
GCCTGCTAGC ATGCCAATCC AATCCCATGA CTGATGTTAT TATACACTAT GGCAAATACA 180
AAGTTGTAGT ATTATGGTTC TTGATGGTGT GATTTACTTA TGTAATTAT GTACAAATTT 240
AAGTTCAATG AAACACTGAT TTAATGTACT GAAAGGTAAA TAGTACCATA GTGAATTATT 300
TCCTGTCTTG CCTTAGGTTT ATTTTATNA TCTTCAATAT TAGANTAAAT GCTAAATTAT 360
TTTCATTTTA AA 372

SEQ ID NO:3615

LENGTH:370

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04267

SEQUENCE DESCRIPTION:

GATCTGAACCT CCTTATACAT AAGAAGGTGT GTATATTAAT CCAATTATGG ACTTAAATA 60

TTTTAAAAGT ATAAATACCC TTATTTGCTG CAAAGACCAG TGTGTAGGCA TTTGCTTTTT 120
 AGCAATATTT TTAAGTGCTC CATTTTAATG CCGAGGAATA AGTCTTTTGG CAACACAAAC 180
 TGGTCAATAA TAGGTAATGC AGGTATGTTC AGGTAAAGCC AACAATGTTT TGCATTTTAA 240
 TGCTTATTTT CTGTCAACAC TAATGAAGTC AACATTGCCT GAATGTCTGA ATAATGAAAC 300
 ACATCCCNGT TTAAGATAT GTAAGTAAA AAGAAATAAA AAANAAATTA AAAGGTAGGT 360
 TTTTTTTAAA 370

SEQ ID NO:3616

LENGTH:370

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04268

SEQUENCE DESCRIPTION:

GATCCCATTA TATAGTATGT ATAGCTGAAA TCTGTAATTC AATCACTTTT TCTCTTTTAT 60
 CCTCTAACCA AAAAATTGTT TAATTTTGCA TCCCAAATGT TTTAATCTT TGTATATTTT 120
 TNAAAAATCC NTTTCTCCTC AGCANTGCCT TTTTNGTGGT TGTAATAGA CTTACTTGCA 180
 CTTTGAAGAT GAGTACTCC TTGTCATCTT ACAAATATGT GATATGGTAA TTNCCATAAC 240
 AGATGTCAGT TTTGANCCAA GAATTGGTGA TTTGTTTATA AGAAAAAAC TGGCTTCATT 300
 NCTGTGNAAT TGCTCTTTGG NAAATTNCTN NTTNACACGT GTAAGCCAAC CTGAGGTACC 360
 GTGATGGGTN 370

SEQ ID NO:3617

LENGTH:368

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04269

SEQUENCE DESCRIPTION:

GATCCCTGCT CAAGCAGCAC AGAGGAAGGG GCAAGACGTG GCCTGTAGGC ACTGTNTCAG 60
 CCTGCAGAGA AGAAAGTNAG GCCGGGAGCN TGAGCCTGGG CTGGAGCNTT CTCCCTCCC 120
 CANTTGGACT AGGGGCAGTN TTAATTTTNA AAAGGTGTGG GTCCCTGTTT CCTCTTCCAG 180
 GGGTCCAAGG GAACAGGAGA GGTCACTGGG CCTGTTTTTT CCCTCCTGAC CCTGCATCTC 240
 CCACCCCGTG TATCATAGGG AACTTTCACC TTAATAATCTT TCTAAGCAAA GTGTGAATAG 300
 GATTTTNACT CCCTTTGTAC NNCNGNCTGA GGAAACGCAA ATAANAAGGG CAACATGTTT 360
 CTNTTAAA 368

SEQ ID NO:3618

LENGTH:364

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04270

SEQUENCE DESCRIPTION:

GATCGGCCCA GCTCCTGAAC TNTGANGAGG CCATTCATAT GGCATTCTTG GAACAAAACA 60
 CTGCACAGGT ACCAGCCTCT CCACTCCTGA CCGGGTTGGT GCTGAACAGT CAGGGATTGT 120
 NCTTGAAC TA GACTTCTGAT GCTTCTTGCA ATCTTCTTTC ATCTTTCCCT GAAATACACA 180
 AAATAAACAA NTACAATAAC AAATAGTAAT TAANTGACTT TCAGGATAAC ATCTAGTTGT 240

TCAGACTTCA CCCTTCACAG GTGTGTGTGT ATGTGTGTTT ATGTCTGTAT ATTGANGCAN 300
TTTGAATTTA TTTTACTGTA TATNTNCTGA GTAAANGACT GANATGNNCT NCTTGGGTCA 360
GAAA 364

SEQ ID NO:3619

LENGTH:363

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04271

SEQUENCE DESCRIPTION:

GATCTGAAGC CTTCCATAAA TNAGAGGCCA TTCATATGGC ATTCCTGGAA CAAAACACTG 60
CACAGGTACC AGCCTCTCCA CTCCTGACCG GGTGTTGGTCT GAACAGTCAG GGATTGTTCT 120
TGAAGTAGAC TTCTGATGCT TCTTGCAATC TTCTTTCATC TTTCCCTGAA ATACACAAAA 180
TAAACAAATA CAATAACAAA TAGTAATTAA ATGACTTTCA GGATAACATC TAGTTGTTCA 240
GACTTCACCC TTCACAGGTG TGTGTGTATG TGTGTTTATG TCTGTATATT GANGCAATTT 300
GANTTTATTT ACTGGTATAT GTTTCTGAGT AAAAGNCTGA AATGNNCTNC TTGGNNCNGG 360
AAA 363

SEQ ID NO:3620

LENGTH:361

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04272

SEQUENCE DESCRIPTION:

GATCCAGGAT GTACTTGGAT GAGGAGGCCT GGCTTATCTA GGAAGTCGTG TCTGGGGTGC 60
TTATTGCTGC TCCATACAGC TGTACGTCAG CCCCTTGCC TTCTCTGTAG GTTCTTGGCA 120
GCAANNNGC AGCTTTCCT CAGTGACACA AGTAATTACT GAGTCCTAAT TTGATAGCCA 180
CCAACTGTAC CTGGGTAGGC AAAGTCAGAT TTTNGAGGAC CTTTTTCCTG ATTTGAAGTT 240
TTAATTACCT TATTTCTNT TATGCTTNC CTCTGTCTTG TAATCNTNCT CTTCTAAAA 300
ANCCTCCCTA TAAATTCAAT TAATTGGGT TAATTTTAGG ATAAACCCAT TTANTTCNAA 360
A 361

SEQ ID NO:3621

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04273

SEQUENCE DESCRIPTION:

GATCCAGATN CTTTCGGATG TCAGGGATAT TCACATTGAC ATGTCTNNNN AGTGTTCCAG 60
GAGATTTTAG TTTGAATAGT ACAATTTTTT CTCTTACAA CAAAACCTAG AACGGCTTCT 120
AACTATTTT TTCATGGCCA AGAACTACC CTAACCTATC TCGATAAATA TTTAGTTCTG 180
TCTTATTTCT AATGTGTAAA ACAGGTTTTA AAAATAATAT ATAGATTTTG CATTTATAAA 240
AAAAGATTTA ATTTATAGAA CCAAACCTNGA ACATATGTTT AATTTAGCCT AATCAGAAGG 300
TTACAGAAAA AGTTGCTGTA AAGATAGAAT AAAGGGTATT GTACTGGTCT GTTTTAA 359

SEQ ID NO:3622

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04274

SEQUENCE DESCRIPTION:

GATCTACAGC AGCTGCATCG AGGACTCCCA CAGAGGTGCT ATAGGGCTGC GCATTGCACT 60
GGCCATCTCA GCTATAGCCG TCTTCCTGGT CTTGGTGTCT GNCTGTATCC TTCGATTGG 120
CACCAGGTCT CTCTGCAACT CCATCATCTC CTTGAACT ACAATNAGCT GTNCTGAAGC 180
CCAGAAAATT CCATGGACAC CCCCTGGAAC TGCTCTGCAG TTTTACTCCA ACCTACACAA 240
TGNTGAAACC TTTCTTGGG TGAATTTGGT ATTGTGGTGT GTGGTCTTGG TGCTCCAGGT 300
CGTGCAGTGG AAGTCTGAAG CCACCCATA CCGCCTCTG GAGAGGGGTG ACCCTN 356

SEQ ID NO:3623

LENGTH:420

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04275

SEQUENCE DESCRIPTION:

GATCCCCCT GNCAGACACC AAAGCTGTGA ACAGAAAGAC TGCCTGGCCA GCAAACCTTG 60
GGACATCAGC CTNGCCCAGC CTGAAAGCAT CCGNAGTGAC CTAGAGAGTT CTGATGCACA 120
GTCAGACGAT GTGCCAGACA TCACCTCANA TGAGTGTGGC TCCCCCGCT CCCATACTGC 180
AGCCTGCCCC TCGACCCCCA GAGCCCAAGG TGCACCGAGC CCAAGTGCCC ATATGAACCT 240
CTCTGCCCTA GCCGAGGGAC AAAGTGTCTT GAAGCCAGAA GGTGGAGAAG CCAGAGTATG 300
AAGTGAATG AATGCTCCTG TTCTGAGANG ACATTGTAA CTGCATCTTT TGGAATTTTT 360
TTTTTTTTTT GCCCAGGGGN NAGGGTTTNT GGTTTTAAAT TTANAGGNCN TTTGGGCAAN 420

SEQ ID NO:3624

LENGTH:352

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04276

SEQUENCE DESCRIPTION:

GATCAGAATT AAAGTAGTAC TATGAAATGT CCTTTTGAAT GTNAGGTCAA GAAATCCATG 60
TACAGAGTCG TGCACTTCAT TGGCTGTAAC TGTCAAACCT GCCTTGATT AGAAGTTAAA 120
TCCCATCGTA AATACATCAC GAGGCCAGCT GTGTGATTTC TGAGACCTAG ATGAGAGTCC 180
NATTACTTCA AGCNTTGATT CAGTAAATNT TAAGCAGCAG AAGNCTTCGG ATGGGTTGAA 240
AATCAATNTT ACAAGGTTTT AACTCATAAA CCCATNNGGG NTTTTTTTTT TCCTCTGCAA 300
NNGGTTNCTA AGGCTANTCC NTGGTAACAC TNTGGGAAAN AAATNTGGAG GN 352

SEQ ID NO:3625

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04278

SEQUENCE DESCRIPTION:

GATCTCCAGT NGGCCTTTGC AGGCCCCGGCC TCCTGCCTCT NGAAGGCCTA NCACGGGCCC 60
 GGCCTCGGCC TCGGCCTCAC AGCAGACTCT CCACGCCAG CTAGCTCTTG CCTCACTGCG 120
 GCCTCCCCAG TCCAAAGCTC CTGCCTTTNG GCCACTTCGG CAGGTCCAGC TCCTGCCTGC 180
 CAGTGGCCTC TTTAGGCCCA GCTCATTCCT CACGTCGGCC ATTCCAGGCC CCGTTTTTCC 240
 CTTCCGGCAG CCTCTTGGCC TCTAATTTGT TTATNTTTTG TGTATAAATC CCAAAATATT 300
 GAATTTTGGA ATATTTCCAC CGGGGGNGTA AATATTTTGA TAGGTAAA 348

SEQ ID NO:3626

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04279

SEQUENCE DESCRIPTION:

GATCTTTATT AAGACAGTGG AAAGTATACT ATTAAGTCAT CATAGTCTTT TGGAGACTTG 60
 TCAAANACAG CAATNAGAAA ATAAGACCTA GCATACCGTG GAGAACCATT AAAAATTNA 120
 NANGAAACAA CAAGTATTAT GTCAACTTAC TTCAAAGGCG AGTTTTGGGA TTTNATGCAG 180
 TAAAGATTCC CTGTTTTATG ATTGTCCCTT GAAAGTCAA TGGGGGCCTG TCCATTGTCC 240
 TCTATTAANC TTNCAGAACT GTCACCAACA AATTTGAGTT GCCTTGTCTA GGGTTCTGGG 300
 TAGTGAAGAT ATTNATNAT ATAATNAAAT AACTGTAG TACTTAN 347

SEQ ID NO:3627

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04280

SEQUENCE DESCRIPTION:

GATCAGAGGA GGAGTGTGAG TGTCTCATA CTCACAGCAA AAGGAGGGAA TTCAGGAGAG 60
 GATTGAAGAA GCGGTTCTTG TTTTAAGGC ATTTGCAATC ATTGCTGGAG AGACAGAACC 120
 AACAGATGGG GAACAATGGC CAGGGACTCC AGGCTGATT TAAGCCAATG CCGCCCTGTG 180
 GTCTTTACCC ACGAATGGTG TGGAAAATNA GAGCAGGGAA GAGGATTTAC TCACTGGCTG 240
 TGGAGTTAGG TCAGAAGGGG GNTGGAAAGA TGGAACCGTA TGGNTTTGGG GACATTTCTT 300
 AATCTNTAGG CTTACCTTC CTTAACTGAA ATTTAAAGCC N 341

SEQ ID NO:3628

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04281

SEQUENCE DESCRIPTION:

GATCGACCTG TCATGTTTTT AAGGTTATCC AGGCTGTATA TCTCTGGAAN AGAAGGGAAT 60
 GGCAAAGAGT GGGAGTCTGA GTCAAGTTTG GTTTTGNNTT NNNAAGAGAC AAGGTCTCTG 120
 TAATCCAGGC TGCAGTACAC TGGCATGNCC ATGGCTCACT ATAGACTTGG GCTCAGCCAA 180
 TCTTCCTGCC TCAGCCTCCT GAGTAGCTGG GNTTGTTTTT CCCCAGGGCC ATATGTCAGC 240
 TTATTTACCC TACTCACTTG GTGTNTCCCA GNCTGCCAGC CATGCTGTTC ATCCAGTATC 300

TTCTNNATGG GGATTACCTA TTAAGGGGAC TAACACAAAA N

341

SEQ ID NO:3629

LENGTH:340

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04282

SEQUENCE DESCRIPTION:

GATCATGGAA CCCCTCTTCC GGCAGTTGGC CAAATGTGTC TCCAGCCCAT ACTTCCAGGT 60
GGCAGAGCGA GCTCTCTATT ACTGGAATAA TGAATACATC ATGAGTTTAA TCAGTGACAA 120
CGCAGCGAAG ATTCTGCCCN NNCATGTTTC CTCCTTGTA CCGCAACTCA AAGACCCATT 180
GGAACAAGAC AATACATGGC TTGATATACA ACGCCCTGAA GCTCTTCATG GAGATGAACC 240
AAAAGCTATT TGATGACTGT ACACAACAGT TCAANGCAGA GAAACTAAAA GAGTTGCTAN 300
AANTGNAAGA NCGGGNNGAN GCATGGGTGA AATTAGAAAN 340

SEQ ID NO:3630

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04284

SEQUENCE DESCRIPTION:

GATCTGCCAC ATGTNTGAGG GTTGCAGAGC CCGCTGTGGA GGTAAGATTG GAAACACATG 60
NAGCAGAGGG AAGACATTGA AGAAAACATC TCTNCTGGAA TATTTGGAAA AGAACACTCT 120
TCTGGACCTG GTTGAAGCAG GAAAGATGGA GGCAAAGTAG TGAAATAATC CAGAATTTCA 180
ATGCTTTTNA ATGTNCTTAG TGATACTGAC CTGTGATAAT ATAATTCCCA GGGAGGACTG 240
GGAACCTTAT CTCTTGAGAT ATTTGCATAA TTTATTTAAT TTAAGCCTCA TTCTCCTTTT 300
GTNCATTTTG GTAATAAACT GGATTTGAAT TGTGAACAN 339

SEQ ID NO:3631

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04285

SEQUENCE DESCRIPTION:

GATCCAGCCA GTATAGAAGT AGCTCTGTAG GGGTGAGGAG GACTNTGCTA TGTATCATCC 60
TNGATTGTNT TCCTTCAAGG AGCATTGCAC TTGCCTTCCC AGACCTTCCA CCTTAGGTTC 120
TGCTGCAAAA AGCACCAGTG CTGAAGATGC TGCAAGACCA AATCATAGCT CATAAAATCA 180
GGTCCTGAGA TAGTTACCCA TAAAGAGGAA TCCTTTGAGT GTATGCCATT GGTGAGCCGA 240
TGAGCATGGA CCATAGAAGG GCTCAATGTA GANTGAACT ACCCGTGTGT AAAAAGAAGN 300
TTGGNTTAAA ATGGCTACTT TGGATGGGNA CCAGTGTCN 339

SEQ ID NO:3632

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

01194

CLONE:HUMGS04286

SEQUENCE DESCRIPTION:

GATCAGAGGG GAAACAAACG CCAAGGGGTT GGGAAATGGGT CGGCATCTGG AGTCTGAGAC 60
AGCTGCCCTC CTGCGTCAAG GGCTGGGGGC CTCAGCTTCC ATCCTGTGCC AGCCTCCATG 120
TGGACAGCTC AGCTTATTGT CCACCACCTG GAAATNCCTC GAAGCTTCAT NNGTCCAGGT 180
CAAGAGAATC CTGTTCCAG ACCTCTGCCC AGCCAGGCCT TCCCAGCTCA GGGCTGACTC 240
CTGCACCAAG TGACGCACTT TTNATAACTG GTCTACCAAT GNCTCCCCTT CAAGTGAGAA 300
CTACCCTTTA CATTTAGGAG TGTGGCCCCG CAGTAAA 337

SEQ ID NO:3633

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04287

SEQUENCE DESCRIPTION:

GATCCCTGTA TGCNGCCAAG GATGGGACTT CCAGCTAATG AATTTGTACA TGCAGCCAAA 60
TTTACAGGAA TTTTTTTAAA AGGCAGAAAA ACTTGAAATA CCAACATTCT GGCAAAAAAN 120
ANTCAGTTTT ATGANGAGTA AGTGGAACCT GGGNTGCAGG ANCAAAAGAG GGAAATGTTG 180
GGCAAACATT TTNNTGGGAG CTCCCTTCGC TGTTGTGCAG CAGAAACAGA TTCTNAGTTC 240
ATTTTTACTC CCACTGTATT ATAGTTTANC AAAANTNGTT TATATCTTGG AAAAAAANCT 300
TTCTGTTTAA AAAANTTAAN CAAGTGAATG TNGGAAN 337

SEQ ID NO:3634

LENGTH:390

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04288

SEQUENCE DESCRIPTION:

GATCCCACTG ATTGGCCAGC CGAGCGAGAA CCAGGCTGCT GCATGGCACT GACCGCCGCT 60
TCCAGCTTCC TCTNAGCCGC AGGGCCTGCN ACGCGGGCAA GCGTGCTGCC TCTNTNCTGT 120
GTCGTTTTGT TGCCAAGGCA GAATGAAAAG TCCTTAACCG TGGACTCTTC CTTTATCCCC 180
TCCTTTACCC CACATATGCA ATGACTTTNA ATTTTNACTN TTGTAGTTTA ATCCTTTGTA 240
TTACANCATG AAATATAGTT GCATATATGG ACACCGACTT GGGAGGACAG GTCCTGATTG 300
TCCTTTCTCC AGTGATACAT TTTTACTCAC ANATAANATT NTTTCAGCAA GTAAAGNGGG 360
ANNGGGTTTT GGTNGNGNGG NGTGNGGTGN 390

SEQ ID NO:3635

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04289

SEQUENCE DESCRIPTION:

GATCTGGCCA TTTGGTACAT AATCCAGCAC AGATAAGCTG GGTGGTAATG ATAATAAAAA 60
TGTTTTTCTC AAA 73

SEQ ID NO:3636

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04290

SEQUENCE DESCRIPTION:

GATCACCTGG GTTCTTTAT TTATCGACTG TGTCATGACA AGGAACTTA CAAACTGCAA 60
CGCAGAGAAA CTATTAAAGG TATTCAGAAA CGTGAAGCCA GCAATTGTTT CGCAATTCGG 120
CATTTTGAAA ACAAATTTGC CGTGGAACT TTAATTTGTN CTTGAACAGT CAAGAAAAAC 180
ATTATTGAGG AAAATTAATA TCACAGCATA ACCCCACCCT TTACATTTTG TGCAGTGATT 240
ATTTTTTAAA GTCTTCTTTC ATGTAAGTAG CAAACAGGGC TTTACTATCT TTNCATCTCA 300
TTAATTCAAT TAAAACCATT ACCTTAAA 328

SEQ ID NO:3637

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04291

SEQUENCE DESCRIPTION:

GATCCTGTGA ACCGTTACTT TGCCTAAATC ACTTGAGACT TGAGTNTTTA ATAACAAAGC 60
ATCAATATTC ACTAAAGTCA ATCTNTTTTN ANTTTCTGTN ACTTGGCTAG AAGCTCTTGA 120
CACTAAGGGA TTAGTGTTAA TTTTCCCTGG GGGTGTTCCA CTAGGGCATT ACTGTATAAT 180
GACTTGATGT TGCCACATAG ACTCAAGAT ATATAATATT TTNAGGATTT TNTTGATTGG 240
CCTATGTTTT ATTGCATAGT GTGAACCGTG TAAAGCTTGG TTAACCTGTA TATAGATAGC 300
TTATTGTTGA CTAGTTATAG TGTATTTN 328

SEQ ID NO:3638

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04292

SEQUENCE DESCRIPTION:

GATCCTTTCC CTGGATACAT AACCTAGTA GATAATGTTA CTGCAAGATG TAATGNCCAA 60
ATCCAACCTA CTGCAATNT TACTATGGAA ATCTCAATGC AAAAGTAGCC TTTGTNATTT 120
TTTTTTTAAA CCGTCTCCAT AACAGANCAC TTAGAATTAT TAGCCATTTG CTGCAAAGTA 180
TTTGTTTTAA AATGTCTGGC ATATACACCA CTAACATTTA ANTGCCAAC ATTCGGTCTA 240
TACGTGAAAA ACCTAGANGA AANGCCCTGT TGGAGTTTGT ATGTAGAGTG CAATANTACA 300
TCAATAAAGG TATTTTAAAA TGGAAA 326

SEQ ID NO:3639

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04293

SEQUENCE DESCRIPTION:

GATCTGTTGT ATGTAATAAG TAACACAGAG TTTTAAACA AATTAATTAT TTAGCTTTAT 60
TGAAGTTTGT NTTTTNCCTT CCGAACCTGG AGTATCATAT TATAACAGC AGTTTCACAC 120
CAGAATAGCA GTGCCCTTNC TTTTGTACA TACTGATTGG NCCTTTCTTT ACTGTTACGT 180
GGACACTTTC TATGTTAGTT TTGATGCATA ATTCTTTGAA TCCTTTTATA CAAACTAGAA 240
TGTATGTGTA AGAATACCTG TCCCTGCAAT GTAGTAATA CAAACTTATT TTAAATAAA 300
TAGAAACTT GTTTTCTAA GCTAAA 326

SEQ ID NO:3640
LENGTH:325
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04294

SEQUENCE DESCRIPTION:

GATCCAAGAG TTTAGTGATT TCAAAAGCCT TGGTCTCAGG AGAAGATTAA ACTTTCATAT 60
TGGGCAGTGG TTCACCTTAA AACACACACA TACACACACA AAACAATTTT TTAAGAAATC 120
CTAATAAGTA ACATACCCAA AATGCTCTGT CTTGAGTCAT GAGAACCATC AGTTCTTGAT 180
ATTGTCTAGA CTTGCATCTA GAGCTACGTT GTAAAATTCT TTTAGGCATG TGTTAGATT 240
CTGTGTAAAC TTTGTTTAAA TGTAACTTC ATACTACATT GTCAGTTTTT GTCTTAATAA 300
AACTATAGAT TTATAATCCC TGAAA 325

SEQ ID NO:3641
LENGTH:391
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04295

SEQUENCE DESCRIPTION:

GATCGGAATT TCCACCAATC AGCGGGAAGC CTCGGCCCTG TAACTGCTAA TGGGAGACAG 60
CAGCGCCACG CCACAGGCTT TTCCCCTGGT TTCGGGAGGG NTGGGGAGCC AGGTGGGGCT 120
CCCGNCCAGA CCCTTTCCCG AGGTCCGNCC TCTCCGCCTT NTCTNTAAAT TCCTCTTTTG 180
AGTNCCCTCC CTTCCGGTGT AGAGGCGGGG GTTGGCCCGT AGTTGTACAC TCAGTCACCC 240
TGAAGTGTGG AGGNGGNGGG NCTCCNTTGT GGACTGATT GCGTGGGGAT TTGGTNTGTT 300
TTATTAAGGG ATTTGAAAAA ATTCAGATGG ACTTNACTAG TATGGACTGT TNGGGTAAAT 360
ATTNGCTTNC NGGGTTAATA AAATGGACAG N 391

SEQ ID NO:3642
LENGTH:324
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04296

SEQUENCE DESCRIPTION:

GATCCAGTCA ATACATGCAG ACCAGTAAAA TCTGATTGTG GCAGAGTTCT CCATCTGACT 60
CTCACTTATT TCTGTAGATA TATACATATA TAAATACAAG TATGTNCTTA CGGCACAGTA 120
TTGCTGACCT TTAGTTCGAG GTTTTGTGCG TTGTTGTTA TTTTCTTCCT CTTGCAAGTG 180
CTATCCATGT GAGTGTGTGA AGTTTCTCTA ATAAGTAAAA CACAGGCCCT TTTCTTGTT 240
TGTTTTGTGT TAGTTTATTG TAAACAGCCA TTTGTTGTAA ATNATTATTG GCATTAAATT 300

ATAATTTATG ATTTTCAAAG CAAA

324

SEQ ID NO:3643

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04297

SEQUENCE DESCRIPTION:

GATCCAGTCT AGGCCCGTAT GTTGCAATTT GCTGTCATGT CTCCTTAGTC TCCATCNCAT 60
CTCAGTGGTC TTTTCTTTTC CATGACTGTG ACAGAAATGA TTTGTATCCT TCATATATCT 120
GCAGTCACAT GAAGTCTATT TGTCCCACTA CTGGTGACGT AAATTTTGGT AACTTGGTTG 180
AGGGTGGTAC CGTCTAGGTT TCTCCATATT AAGTTGCTAT TTTNCCTTGT GTATTTAATA 240
AGTATCTTAT AGGGAAATCC TTTGAGACTA TGAAATATC ATATTACATG TATTTNGCCT 300
GTTTTAGCAT CTTTGAAGA TAN 323

SEQ ID NO:3644

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04298

SEQUENCE DESCRIPTION:

GATCTGGAGC ACAAGGAACT CCCATACATT CCTAGTGGGA ATGCCTAATG TTAGAGTCTG 60
GAAGACATTT TGGCAATTNC TTAACCAAGC TCTTCTTACC ATAAGATGAA GCAACTCCAC 120
ACCTTGGTAT TTACCCAAAC GAGTTGAAAG CTTATGCCCA TACAAACACC TGTACAAGAA 180
TGTCTATAGC AGCTTTATTC ATAATTGCCA AANCTTGAGG GCATCCAAGA TATCACTTAA 240
TGGGTGGACA GATAAGCTGT GGTACATCTA TACAATGGAA TATTAAGGTG CTAAAAAGAA 300
ATGAGCTCTG AAGCCACAAA 320

SEQ ID NO:3645

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04299

SEQUENCE DESCRIPTION:

GATCGGGATT AATATTAGTG CATTTTAAA AACTTAAAA GTTTTACAAN TGTATTTGTG 60
TATTTCTGT TTTGGTGCTT GTTTTATAGA AGATGATTGA NGAATCACTG AAGATTAAAA 120
TAAAAAGGA ATTAGAAATG GAAAATGNAT TAGAAATGAG TAATCAAGAA ATAAAAGACA 180
AATCTGCTCA CAGTGAAAAAT CCTTTAGAGA AATACATGAA AATCATCCAG CAGGAGCAAG 240
ACCAGGAGTC GGCAGATAAG AGCTCAAANN NGATGGTCCA AGAAGGCTCC CTAGTGGACA 300
CGCTGCAATC TAGTGACAN 319

SEQ ID NO:3646

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04300

SEQUENCE DESCRIPTION:

GATCATAGAA GAAGAANCCA GTAATTGANC AAATCCTATT TAATGACATC CTTGTAGCAT 60
AGATGGTCTA TAATGCTGAC CACAGATTTC TTAGAAATGC TGCTCTCTCT ATTAACTAA 120
CATTTTGTNC AGTTTTCCT CCAGTGGAAG CAGAAAGGGT TTTNCAGCT GTTAAATCCT 180
AAAANTCAAT ATAATTNATT TATGTAAGAA AAATAACTCA ATCAATATAT TTTTGAACCT 240
TTTAAGTACT AATTTNNTNT TTATCAAGTA GAAAAAAAT GTATTTGCC TAAATCCTTA 300
AAATACAAAT GCTATAAA 318

SEQ ID NO:3647

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04302

SEQUENCE DESCRIPTION:

GATCCTGAGG CTTTGGCTGA AATTCTGCTT GAAACTTGTA AATCAATCAC ATATTCTTTA 60
GAAAATAAGA CCTACTCATC TGTGAGAACA GAAGCTTTAT CTGTGATAGA ATTGCTGCTT 120
AAAAAACTTG AAGAATCTAA ACAGTGGGAA TGTTTGACAT CTGAATGCAG AGTGCTCCTA 180
ATTGAGTCTT TAGCTACTAT GGAGCCAGAC AGCAGACCTG AACTGCAGGA GAAAGCAGCG 240
TTACTGAAGA AAACACTTGA AAATCTGGAA TAANTTAGAN GGGGAAGAAA CAAACAAGTG 300
CCATGTTTCAT TGGGGGN 317

SEQ ID NO:3648

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04303

SEQUENCE DESCRIPTION:

GATCCTTCTC CTTCCCTGGG ATACAGCACC TCCACCCTGC CAGGCCACCC NTGTAAAGGC 60
AGCCAATTCA GAGCCACCTC TTATGCCTGC ATCTCCCCCA ACAATTCCTG CTGGGAAACC 120
ACTCCTCGTA TGGTGTTCATC TACACCAGTG GGTTC AAGC TTGAGAAGAA TCAAGTTCTA 180
CAGGGCTGCT TAAAACACAG GTTGCTGGGT CCTGTNTCTC AGAGTTTTTG ACTCAGTCTT 240
GGTTGAGAAT TTTCAGTTCT AGAAGCTCCT GGGTAATGCT AATCCTCCTG TTCTAGGGGC 300
CATAGTCATT GTCCATN 317

SEQ ID NO:3649

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04304

SEQUENCE DESCRIPTION:

GATCTACACG CGGCTGGCCA CCATCTACCA CAACTNCCTC CTGGACCGTG AGAAGTCGCT 60
CTTNTTCTAC CAGAAGGCCA GGACCTTCGC CACAGAGCTC AACGTCCGCA GGGTCAACCT 120
GCCTCCTCTG CCACTCTGCG GGTGGGCCCC CTGGTTGGCC CCCAGCCACC CTNGCTGAGG 180
ACAGCATCCA AGGGAGTGGG TTTGTGCAA GGGCTAGGGG TCTCCTGCCT NTCCTGGTGT 240

CGNCGGTGGC TCATTTTCTN GCAAATNGAG GCACGAACGC AGGGNCCAAA TAGCAATAAA 300
TGGGTTTTGT TTTTAAA 317

SEQ ID NO:3650

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04305

SEQUENCE DESCRIPTION:

GATCTATGCA ATTTTAAAC TAGTAATGGG CCAATTAAAA TATATATAAA TATATATNTT 60
NCAACCAGCA TTTTACTACT TGTTACCTTT CCCATGCTGA ATTATTTTGT TGTGATTTTG 120
TACAGANTTT TTAATGACTT TTTATAATGT GGATTTCTTA TTTTAAACC ATGCAGCTTC 180
ATCAATTTT ATACATATCA GAAANGNNG ANTTATATCT AATTTATACA AAATAATTTA 240
ACTAATTTAA ACCAGCAGAA ANGTGCTTAG GAAAGTTATT GTGTTGCCTT AGCACTTCTT 300
TCCTCTCCAA TTGTAAA 317

SEQ ID NO:3651

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04306

SEQUENCE DESCRIPTION:

GATCTGAATT CTAAAGCGTC TTTCATTGTT TACTTTTAGG ATGAGGAAGT ACAGACAATT 60
GGTCAGATAG AACTGTGCCT CACTAAGCAA GACCAGCAGC TGCAAACTG CACCGAGCCG 120
GGGGAGCAGC CGTCCCCCAA GCAGGNGTC TGGCTGGCAA ATGGGGCCGC CGAGAGCCGG 180
GGTCTGAGAG TCTGTGAAGA TGGCCAGTC TTCTATCCCC CACCTAAAAA GACCAAGCAT 240
TGATGCCCAA GTTTTGAAA TATTCTGTTT TAAAAAGCAA GAGAAATTCA CAAACTGCAG 300
CTTTCTAAAA AACAAA 316

SEQ ID NO:3652

LENGTH:374

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04307

SEQUENCE DESCRIPTION:

GATCCTTGGG TTGTAAAGAG AGTAGAAACC CTAGGNAGCA GTGCTTTTGG GTCCTAGAAC 60
CTGTTGAGTT TCTAATGAAT ATTTGTAGAA TCTNATAAAA CAGTTTAAAT ACAAGCTTAA 120
GTGGCTTATG AATCCTGTNA AGCTCATTTA TGGNCTAGTG TAAACAATG TGAAGCTCTA 180
CTAAGTNCTG TCCTTAATCA TAAATAATAG CCCCTTGNGG NCTAGCCTGT CCTCTGGTCA 240
CCTTACCAGT TGGGTTGCAC ATTGTGTGGT CGTCCAATTA AACTCAATCT TNCGTGTGNC 300
AGGNGNTAGT CTNTCCAATC ATGNCATAGN TTTTCATCTGG TTTTGNCTG GTGGACGNAC 360
CTTCGGANTA ANTN 374

SEQ ID NO:3653

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04308

SEQUENCE DESCRIPTION:

GATCAGGACC AACCTGGAAA ATGCCAGATT TGGCTATGCT TTTTAANACA TTNATTTGGA 60
CAGCTACCA ACCCCTGAAG GGGCCGTTAA GCCTGGTTAG TTTTNTACCT ACTCCGAGTN 120
TCCTCCCCTG CCCCACCAGA TTGCTGCAGG GGC GCGGTGT GCCTGGNAGC CAAATTNTTG 180
ACACTTCTTT TTTCTATGC ACTGGTTTTA CACAGCTGTN ATTTTNTTT CAAAATTGCA 240
GCAGTCCCAC AAGATGTNTG CATTTGGACA AATAGTACTT AAAAACAAN CAAACAAGCA 300
CTCAGCCCAG TTCCTN 315

SEQ ID NO:3654

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04309

SEQUENCE DESCRIPTION:

GATCTAATGC AGAAGTTATC AGATATTGTG AAAAATCAGT GTGGGAGGTA TTCAGTCAAA 60
AGTCAGAAAG AAATGTATTA TCGTTATAAT TTCAAACCTT AAGAAAGCCT AAATTACCAA 120
TTGCATATCA AATTTTTTTG ATAATGTAAG GAAAACCTAA ATCCCCTCCA TATCCTAATT 180
GGCATTTATA ATAATATGAC ACTTAACCTT GACAGCTAGA GTCTTACTTT ATGCTAATGC 240
TAGATATCTA TTTTNAANTT CCACGTGTGT AAACATGCTA TACTCTTCTG ATATTAAANT 300
TACTAAGTAC ATAAA 315

SEQ ID NO:3655

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04310

SEQUENCE DESCRIPTION:

GATCCAAGAA GAACTAGAAA AAAAGTTGTT TGCAGGCTTG CAACCTCTCA NAAATTTTAA 60
GGCTAGCTCT TCAACTATGT CTTTNAAAAA GAATATGTCT GCCACAGCA GCCAGAAGTG 120
ACAGCATTCT TGTGAATGTT TACATCCTGC TGCTGATAGG TTCAAGGAAT TCTTTAAACC 180
AGATTCTGCT GACATGAGAA GCTCCAGTGA TTTGTTTTTT TGAAGGTCTG TATCAGAGCA 240
AGCCTAACAT CTAAATAANG TTTGATTCTG GATTTTCCAG GTGGGAAATA AATAAGAAA 300
ATTTGGCTTG TCAAA 315

SEQ ID NO:3656

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04311

SEQUENCE DESCRIPTION:

GATCCGTGCC CGCNTCCAGG AGAAGTTGTC ACCTCCCTAC AGCTCCCCAC AGGAGTTTGC 60
CCAGGATGTG GGCCGCATGT TCAAGCAATT CAACAAGTTA ACTGAGGACA AGGCAGACGT 120

GCAGTCCATC ATCGGCCTGC AGCGCTTNTT NGAGACGCGC ATGAACGAGG CCTTCGGTGA 180
 CACCAAGTTC TCTGCTGTGC TGGTGGAGCC CCCGCCGATG AGCCTGNCTG GTGCTGGCCT 240
 GANTTCCCAG GAGCTGTCTG GTGGCCCTGG TGATGGNCCC TNAGGCTGGG GGCCCCATGG 300
 TCAGCCCAGN NTGGGTTCTG TTCTNTGGNN CTTGTCANNC NNAANCN 347

SEQ ID NO:3657
 LENGTH:313
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS04312

SEQUENCE DESCRIPTION:

GATCATAACT GAACCAGAAT TTGGATTATA GANGTGCACT TCCTAGCTGT TTTTATTTA 60
 GGTATAGGAA CACACAATGA GAACCTTATG TTTAGAATGT AGCAGTAACA ACAGAGGGTA 120
 ACTACACTGC AAGACTTAAA TGGTTTGAGC ATGTGACACT ATCCTTTTGT TGGGGGGAGC 180
 AGGGTATAAN ANTATACATA CAGGAGATTA GTTTAATAGT AAAGTTTTAT ATGTATGTTT 240
 AACTTCCATG ATATTTATNA TTTNGTAGAG ACATTTGTGA TTGTNTAGAG TTCTNGTNTT 300
 TTTTCTATTT ATN 313

SEQ ID NO:3658
 LENGTH:307
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS04313

SEQUENCE DESCRIPTION:

GATCTTAAAA GTGGAAAGCA GAAAAAATAC TGTTTCCTGA AATTNAAAAG TTTTGGCAGT 60
 GCCCAGCAGG CCCTCAACAT TCTCACAGGC AAGGACTGGA AGCTGAAAGG CAGGCATGCC 120
 CTAACCCCCA GGCACGTCCA TGCCTGGNTC AGAGGCTTAC CACCTGANTC AACAAGGCTC 180
 CCAGGGCTTC GTGTTGTACC TCCCCCTTTT GAACAGGAGG TCTTGACAGC TCTGAAACTG 240
 GACCACCCGA AGATAGCAGC CTGGCGCTGG ANGCCGGAAG ATTGGAAAGC TCTACAACAG 300
 TTTGTGN 307

SEQ ID NO:3659
 LENGTH:306
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS04314

SEQUENCE DESCRIPTION:

GATCCCCAGA GAGGTGGCCC TGGACCTGGA GTCAGGAGGC GGTGTCCAGA AGAGTCGCTC 60
 ATCAACCCCG GGTTCAGAG TAAGAAACCA GCTGGTGGCG TGGACTTCGA TGAGACCTGA 120
 AGGTGCAGCA CAAGCGTGGC CCCGCGGGGA GTCCGCCTAT NAGGGGAGAG GCAGTCTTTG 180
 AGGCCCCCAT CAGAGACCCC CCGCCACCAC CTCCACCTGC CTGTCTCTGG CCAGGACTAA 240
 CACGGCTCCT CAAATTCCTT CCCTGTCAAA TAAACAGCTC CTTTGGTTGG AGGCTCTNGT 300
 GGGAAA 306

SEQ ID NO:3660

LENGTH:371
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04315
SEQUENCE DESCRIPTION:
GATCCCCTGA GCAAGTCAGA AGTTACTCTC ATCAGTCGTT CATGGTCACA ACCTGAGGTA 60
CTCTGCTGAG TGGGCAAGGC TGAAGAAGAG GCCTGTGGAA TGCAGCATT A CCTGCTGGAC 120
AGAGCAGGGC AGGCAGTTCT ATGCCTTGGA GCTCCTGACT GCAGGGACTC TGTCCCCACA 180
CTCAGAAAGA CTCAGCTCAC TCAATGAGAG AATGTGATTT ACTTTATAGA ACGTATAATC 240
AACTTTGTTG AATAATTTGT TCTATTAAGG CTGTCTAAAG TATGTNATGT CTTATCATA 300
GTATGAAGTG TTGAAAATTA ATAACGGGCC TAGTTTAGGA AAAAGCTGCT TAAANGNGTG 360
TGGCCCGTAN N 371

SEQ ID NO:3661
LENGTH:304
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04316
SEQUENCE DESCRIPTION:
GATCTGTATT GATATTTGAT AGTGAAAATG TTTATTCAAT TTTTCCCCAA AATGTATTTG 60
TTCCTCTTAC TTGTTTATTC AGCTGTGGTG ACTTCAAAAT ACTTTTTCCTA GGTGACAAAA 120
AAAAACTCAG AAAAATTTT AATCTTAATT GCATTAATAC TATAAATTGA TTTGGAAGGA 180
TTTAACATTT TATAATATNG GNNTTCCTCT GCAGTAATGT GGCATATTCT TCCNNNGTT 240
CAAGCATTA AAAAACTCTCT TAGCAAAGCT GCACAGCCTT CTTCATAAGG GTTCTCTATA 300
TTTN 304

SEQ ID NO:3662
LENGTH:303
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04317
SEQUENCE DESCRIPTION:
GATCTGCGGT GGGCCAAGAG TATCCAGGGA GAAACCTGTC CCTGGCAGGG CTGGAGCAGG 60
GACACTCCAG GCCCAGCTGA GGCTTCCTGC TCTGCATGGC AGGGGACATC TCTNACCTGG 120
TCAGGACCTT GGAGGTGGGA CAGCTGGTGC TAAGGGAATG TNAGCGCATC AGGGTTGGGG 180
AGAAGCAGTG GGTGGTCCAG GAAACCCCTG AAACAGCTGG CCCTGGGGTC CCCTTTCAAG 240
TGTTTCCAGT TGTGGCAAGG GGTCAAGGAG ACCTTGCATT GCAAATCTNT TAGAAAAAAC 300
AAN 303

SEQ ID NO:3663
LENGTH:302
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04318
SEQUENCE DESCRIPTION:

GATCTGAAAG ATTACATTTA GAACATTTAG TACTATTACA CTCTCAGAAA CTGTNGTAAA 60
 AAGTCACATT TTCAAAACTT CATGCATATT GTATTCTTGT TGGAAATAAG TCCTATAGTT 120
 TCTTAATTGT CTTTCATGCCG TCCATATTTA ACAAACATTG CAAGTCCTTT TTATATTTGG 180
 GTAATNATTT GTAATTTAGT GAAGGAGACT AGGGGATGTT TTCTTCCAAA GGAATTTAA 240
 AATCAATTTT ATGGTATTTT GAAAGTAAAA TACTCCTTAA CGTGTCAATA TTTTAAAAAT 300
 GN 302

SEQ ID NO:3664
 LENGTH:301
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS04319

SEQUENCE DESCRIPTION:
 GATCCTCTCA GAGTGCCAGG CATCCCCCCC GNACCAGCAG AGGCTCATCT TTATNAGGCA 60
 AGCAGCTGGA AGATGGCCGC ACTCTTTNTG ACTACAACAT CCAGAAAGAG TCGACCCTGC 120
 ACCTGGTCCT GCGCCTGAGG GGTGGCTGTT AATTNTTCAG TCATGGCATT CGCAGTGCCC 180
 AGTGATGGCA TTACTCTGCA CTATAGCCAT TTGCCCAAC TTAAGTTAG AAATTACANG 240
 TTTTCAGTAAT AGCTGNACCT GTTCAAANTG TTTAATAAAN GGTTTCGGTT GCATGGGTAA 300
 A 301

SEQ ID NO:3665
 LENGTH:300
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS04320

SEQUENCE DESCRIPTION:
 GATCTGAAAA ATGAAGTTTG GTATCAAAAA NGTCATGACC CTGTATGTAA AGCAGAAAAAC 60
 TTCAAATCTG ACTGTTTCCC ATTACCTGCT GAAGTATGTC TCCTGTTTCT TTTCAAAGAG 120
 GAAGANGAGT TTACAACAGA TGANGCAGAT GAAACTAGGA GCAATGAAAC CCAGAATCCT 180
 CATAAACCAT CACCTAGCAG GCTGTCAACA GGTGCATCTN CTGATGCTGT CTGGGNTAAT 240
 GGCATTGATG ATGCTTATTT TTTAGAAGCT ACTGAAGATG CTGAATTAGC TGAAGCTGCN 300

SEQ ID NO:3666
 LENGTH:300
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS04321

SEQUENCE DESCRIPTION:
 GATCACTNAA TGGTCAAGTG GAACAAGCAC TACACGACTA ACCCCTATTG GGGTTTTTAA 60
 CTTAAGGGAG GCTAATTTT AATTTAAACT GCTCGAGATA TGAGTTCTGC AAAAGGTGGT 120
 CCGCATCCTT GGCCCTCTGG ACATTATCAC TAAATTGCTT GTGCCTGTTA ACAAGAATAC 180
 TGACCAGAAT GCTCTTCATG TAGCTTATAC AGTTGGTTCA CTTTCATGCGG TTCTTGACAT 240
 GTTTATTCT ACCCTTAATG CAATGAAATG TTTTATTAAT AAAAAACCAC TTTATATAAA 300

SEQ ID NO:3667

LENGTH:417

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04322

SEQUENCE DESCRIPTION:

GATCTTTCTG GCTCCACTCA GTGTCTAAGG CACCCTGCTT CCTTTGCTTG CATCCCACAG 60
ACTATTTCCC TCATCCTATT TACTGCAGCA AATCTCTCCT TAGTTGATGA GACTGTGTTT 120
ATCTCCCTTT AAAACCTTAC CTATCCTGAA TGGTCTGTCA TTGTCTGCCT TTAAAATCCT 180
TCCTCTTTCT TCCTCCTCTA TTCTCTAAAT AATGATGGGG CTAAGTTATA CCCAAAGCTC 240
ACTTTACAAA ATATTTCTCTC AGTACTTTGC AGAAAACACC AAACAAAAAT GCCATTTTAA 300
AAAAGGTGTA TTTTTTCTTT TAGAATGTAA GCTCCTCANG AGCAGGGACA ATGTTTTCTG 360
TATGTTCTAT TGTGCCTAGT ACACTGTAAA TGCTCAATAA ATATTGATGA TGGGAAA 417

SEQ ID NO:3668

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04323

SEQUENCE DESCRIPTION:

GATCTCTGAA AGTCAAATG GATGGAATTT AGTTTGC GGG AAAGAGGCTT TGCTTTGCGC 60
ATATCAGGCT TAGGACTGTG GGAGGCTTAA GAAGCAGATG CTTCTTNAT TGTACTCTTG 120
TNCTGCCCTT GTTTTTGAA GGCTCTGACT TATAACTNCT GTATCAGAAG AACATTTTG 180
ACAGTGTCTT GGTGGAGAT GAACATCCCT AATTGACATG TGATGACTAT TTCTNATTCC 240
ATTCATCTAA GAGTCATTGA AATTTTGTTT TGCTTGTTTG TTTAGCTTCA AGGTCTTN 298

SEQ ID NO:3669

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04324

SEQUENCE DESCRIPTION:

GATCATCTCT ATATCTAATT TGTATTATNA CTAATCTTAT TCCAACTATT TNCTTTATNA 60
TACTGAAACA GTTTGTNCCT TCAGTCTCTG CTTGCGCTAC CTAAAAGGGA AGGGCCCCCT 120
ATCCTGTAAT CACATGACTT ACTTCACCTT GTCAATCACT GAGAAGATTC ACCCTCCTTA 180
CCCTGCCCCC TTGTCTTGTA TGCAATAAAT ACCAGTGGGC CTAGCCCTCT GGGACCACTA 240
CCGGTCCCGG GGTCTTGATG GTAGTGGNCC CANAGCCCAG CTTGCNTNCN CAAA 294

SEQ ID NO:3670

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04325

SEQUENCE DESCRIPTION:

GATCAAGAGG CCACCAGTTG TACTTCAGCA CCAATGTGTC TTACTTTATA GAAATGTTGT 60
TAATGTATTA ATGATGTTAT TAAATACTGT NCAAGAAGAA CAAAGTTTAT GCAGCTACTG 120

TCCAAACTCA AAGTGGCAGC CAGTTGGTTT TGATAGGTTG CCTTTGGAG ATTTCTATTA 180
CTGCCTTTNN NTNCTNACTG TTTTATTACA AACTTACAAA AATATGTATA ACCCTGTTTT 240
ATACAANCTN GTTTCGTAAT AAAACTTNTC CCTTTTTTTA AAATGNAANT AAA 293

SEQ ID NO:3671

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04326

SEQUENCE DESCRIPTION:

GATCTATAGT ATTTTAATGT GCATCTACTT TAAATNAGTC ATCTTGGGGT TTNATAATT 60
CCCTTATGTT CTGCCCCCTC TACACTTGAA ATAACAAAAT GCCTTAATTT TATGGATTAG 120
TTCTCTTATA GTAGACAGGC AGCTATATGC AGCAAAACCA ATAAAGTTAT TTTTCAACTT 180
TCATAGTTGT AAAATATCTT ATAACAGAAT ACAAACAGC TANGAAAACA TGCCACATT 240
NATTTTNGCA TTTTCAAATA ATTNGTTTTT GGTGTAAGCA CAGGATAAAA AN 292

SEQ ID NO:3672

LENGTH:291

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04327

SEQUENCE DESCRIPTION:

GATCAAGGAT GCAACCTCAG GTTGAGAAAAG AAACAGGGTT CCCTGGGCCC ATTAGACTGT 60
TTGCAGGGCA TCACTGCTTC CCCCTGACAC CTCACAACTA GCAAAAATTG TCTTTGTCTT 120
TGGAATNAT AGAGGGATTT GGGTATCCAG ATTGTGCAGA TGCAAACTTA GGCTGTCTTG 180
ATGNNACTT AGAACACAG AAATGCTTTT AAAATGCCTG TTTTAAGATG GAATTGTTGT 240
TTTNATAATT TGATTTTAGT GCTAAATAAA TGATTGGCTT TGTACATGAA A 291

SEQ ID NO:3673

LENGTH:291

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04328

SEQUENCE DESCRIPTION:

GATCTAAAGG CTCTGGNTTT GCCTTCTTTC AGTCTGACAC TGAATAACAA CCTCGACAAG 60
GTGGGCATAT ACCTGGATTA TGAAGGAGGA CAGTTGTCCT TCTACAATGC TAAAACCATG 120
ACTCACATTT ACACCTTCAG TAACACTTTC ATGGAGAAAC TTTATCCCTA CTTCTGCCCC 180
TGCCTTAATG ATGGTGGAGA GAATAAGAA CCATTGCACA TCTTACATCC ACAGTAATGA 240
GTCATAATAT TATACAAATT CAGAGTGTTA TTAAAGAGGT TTTGAAATAA A 291

SEQ ID NO:3674

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04329

SEQUENCE DESCRIPTION:

GATCCCCAAA GCTGTTTTNA GGTATAAGGA CAAGGAGAGG AGACAAGTGA CGACAGCCAT 60
 TCCCCTTTGC AGCTATCTAC TGTAAGTGACA GCCATTTCTT GGTTGATGGG TTGGAAGTCA 120
 TCAGAGGTTT GAAGAATTAC ACTGGCCTTT GTTTTTCNNG AAATGCCGAC CATGGAGATG 180
 CTTTAGAGTC TTCTCAAATA GCTTAGATGT TGTAATGNGG TTAAGCTTG CTCATAAAA 240
 CAGGGGCCCT CAGAAGTTCT CCTTTAAATT TTTCANATAA AAAATTTAAA 290

SEQ ID NO:3675

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04330

SEQUENCE DESCRIPTION:

GATCTATCCC TGCTCACTG AAAGCCCCTG TGTAAGTGCT GTGTTGTTTT CCCTTGACCC 60
 TGGNNTTTC TATCCTCCCA AAGACTCAGC TCCCCTGTGA GATNGCTCTG CCTGTCCTTC 120
 CCCAGTCACC AGGGTGGGGG GGACAGGGNN AGCTGAGTGC ATTCATTTTG TGCTTTTCTT 180
 GTGGGCTTTC TGCTTAGTCT GAAAGGTGTG TGGCATTCTG GGCAATCCTG TAACTTCAAC 240
 ATAGATTTTT TTTGTGTGTG TGGAAATAAA TCTGCAATTG GAAACAAA 288

SEQ ID NO:3676

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04331

SEQUENCE DESCRIPTION:

GATCAACCCC TGACCTAATC GGTTATGTGA TCTACAGATT ACAGACATTG TATAGAAATG 60
 CACTGTGAAA ATCCCTATCC TGTTTTGTTC TAATCTAACT ACCGGTGCAT GCAGCCCCCA 120
 GTCATGTACC CCCTGCTTGC TCAATCAATC ATGACCCTCT CACACACATC CCCTTAGAGT 180
 TGTGAACCTT TAAAAGGGAC AGGAATTGCT CACTTGGGGA GCTCAGCTCT TGAGACAGGA 240
 GTCTTGCCAA TGCCCCTGGC TGAATAAACC CCTTCCTTCT TAAA 285

SEQ ID NO:3677

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04332

SEQUENCE DESCRIPTION:

GATCACAAAA ATGGAACCCC CTGTTTCATG CTTCTACAGT CCAGCCAGCC AATCTGAAGA 60
 TGTCATTCTT ATAAAAAAGT ATGACCAAAT GGCTATCTNC CACTGTTTAT NTTGGCCTTC 120
 ACTGACTCTG CTAGGTGGTG CCCTGATTGT TGGCATGGTG AGATTAAACAC AACACCTGTC 180
 CTTACTGTGT GAAAAATATA GCACTGTAGT CAGAGATGAG GTAGGTGGAA AAGTACCTCA 240
 TATAGAGCAG CATCAGTTCA AACTGTGCAT TATGAGGAGG AGCAN 285

SEQ ID NO:3678

LENGTH:282

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04333

SEQUENCE DESCRIPTION:

GATCTCTGTG TTTGCAGTCA AAGGGCGGCT CACACATGGT CAAGTATTAT AAATNTCCTG 60
TGTATCTNAC AATGGAATCT ATTCTACAAT TTAAAGTATA CGCTTTCTGT ATATGGCCAT 120
TAAGTGAAGC TTAATAATCT TGTNTTNCT GTCCTCATAG ATATTTAAT CTGTGGCATC 180
CTCCTGTAAT CTCAGCATTT TGGGAGGCTG AAGATGAGAG GGTGCTTGA GGCCAGGAGT 240
TCAAGACAAA CCTAGGCAAC ATAGCAACCC TGTCTCTCCA AA 282

SEQ ID NO:3679

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04334

SEQUENCE DESCRIPTION:

GATCTGAGGT GATATGTTCT GAATGTAAGC ACCGTCAACA TCAGACACCT ACTCATGGAC 60
ATGTGGTTGC CGGATTTTCT TAAGATGTTT CCAGAAATGA CTGATATTTT ATATTTATAC 120
ATTTTAGATG ACAAAGCTTG ATATTTATTG CTGTCGCACA TTTTAAAGTT TTCTTTTGG 180
GTTGCTCTGT GNCANGGCGT GGTACATGG TGNTAAATCG GTACCTGATA ATGTACCCAA 240
ATACTATGGC CAGATAATAA ATTGNNGTGC AAACAACAAA 280

SEQ ID NO:3680

LENGTH:278

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04335

SEQUENCE DESCRIPTION:

GATCACTGTG CAGTGGGACC ACCCTCACTG GCCTTCTGCA GCAGGGTTCT GGGATGTTTT 60
CAGTGGTCAA AATACTCTGT TTAGAGCAAG GGCTCAGAAC NCNNAATAC TGTCATGGAG 120
GTGCTGAACA CAGGGNNGGT CTGGTACATA TTGGAATA TGAGCAGAAC AAATACTCAA 180
CTAAATGCAC AAAGTATAAA GTGTAGCCAT GTCTAGACAC CATGTTGTAT CAGAATAATT 240
TTTGTGCCAA TAAATGACAT CAGAATTTTA AACATAAA 278

SEQ ID NO:3681

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04336

SEQUENCE DESCRIPTION:

GATCANAGAN TNACAACTGT TCATTATAGT GGTGCCTTAG GCAATCTTN CAAAGTAAAT 60
TCAGGGCCCC ATTGCTACTT ATGCCATATT TGGACATACT TTTTTTTCT TCAATTTTGT 120
AAACTTCTTG GAAAGCTGTC TTCCTAAGT ATCCCNAGT CTCTATCTAT GNGGNTAGTA 180
GTCTATGAAA TAACACATAA AGTACGCCAG NAGTTNGNTG GAACGTGTTA GAAACTGTTT 240
TGTGCTTNA TGGATGTCAT ACTTGNCANT ACATGTN 277

SEQ ID NO:3682

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04337

SEQUENCE DESCRIPTION:

GATCTTTCTT TACTTGATGT GTCCTTCTNT TCGCAGATTG ATAACAGAGC TGTGCTAGAA 60
CTGAATGCAA GCTTTCCAAA ANTNTTCATA AAAAAAGCT TTACTCAGTG ACTTAATATA 120
TGTNCTGTAT TAAAATTAAT GTGCTTTGTT GGGGTTTAAT TTTGGNATTG GTTTGGGTT 180
TTNTTTTATG TTGTTTTAAT GGTAAGAATT AAGACATTTT NTAGATTTTA AAGAAAAATA 240
TGAAATTNTC CATTAAATCA AGTAAAAATG TGAAG 275

SEQ ID NO:3683

LENGTH:269

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04339

SEQUENCE DESCRIPTION:

GATCTCCGCA GTCTTCAGCG CATTGGCCCG AAGAAGGCC AGCTAATCGT GGGCTGGCGG 60
GAGCTCCACG GCCCCTTCAG CCAGGTGGAG GACCTGGAAC GCGTGGAGGG CATAACGGGN 120
ANACAGATGG AGTCCTTCCT GAAGGCAAAC ATCCTGGGTC TCGCCGNCGG CCAGCGCTGT 180
GGCGNCTCCT GACCGTCGTC TCCTCACTCC GNCTTTTCAA ATTTTGTAT AACCCCGTGT 240
TGTGTAAATA CAGTTTTTGC TCCGGTAAA 269

SEQ ID NO:3684

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04340

SEQUENCE DESCRIPTION:

GATCAGGCCA GTAGGTTGTG AATGCAGGCT GGAGCCCCCG AATGCCCCAN NCACACTGCA 60
GCATTGACCA GACCATCCGA AACCTGCGTC CCTGGTGATG TTCTCAAGCC TCGGAAGTGG 120
CAAATGGAAA TAATATGGCC GGTGCGGTT GTAGGAGAGT TGTGACTTAG GCAGGAGTCG 180
ACCTCCTCAA GTAATGGAAC GATTTCAAAG GCAGGCTGCC CTGACCAAAA ATATCTGCCA 240
TGAATAAAGG TGCCTGAAAT CCTAAA 266

SEQ ID NO:3685

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04341

SEQUENCE DESCRIPTION:

GATCTACTTT CAGGATTATT TTTGTNTTT GAACGTGACA GTNTGGATGA GGCAAGTNAG 60
TNTAGATGCT GCGACCCTGC GAGAAGCAAT AGCTAGTGAA CACATTAGCT CCCTACATGG 120

GACGCAGCTC CCTCTGACAT GTGTCTCTGC CCTTAACCAA GACAGAAAGG GGGTAAATGG 180
AGGATTGGNT TACTGTCTTT GCTGGT TAGT TTTGTGAAAT TTAAAAATG TTCAACTTTT 240
GANTAAACTC CTTTAACTT CTTAAA 266

SEQ ID NO:3686

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04342

SEQUENCE DESCRIPTION:

GATCTCCTTC AGTNGTCTAC CCACTTCCGT CATTGTCCTC CGCTAGAATA ACAGAGTAGT 60
TGGTAGTCAT GGCCAGAAGG GGGGTGGGGG CAGTGTGAGG ACTTGGGGTT TCTGTGCTGT 120
GTGACACAAG GAGATAAGTG ACAATNTTGA AGTCCTAACT TGCATTATC TAGAAAGTAT 180
AGTGGTGATT TTTGTGCAA GATTTGAAGT TTAAAAAAG TACCAAGTTC CTGAAATTCA 240
ATAAAATATT TTTATTAATT TTAATGGAAA 270

SEQ ID NO:3687

LENGTH:264

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04343

SEQUENCE DESCRIPTION:

GATCTCAGCT CACTGCAACC TTCACCTCCC GGGAGCATGC TGCTCTATCT TTTTTTNCAG 60
ATGTTTGAGC TATCCAGGT TTTTGGGAT TTCTGTTGNT TTGTTTGTGTT TTTTGCTTTT 120
CTACATAATT GTTTGGATA TCTTGTCAGT ATCTACGAAG TGCCTTGATA GTAAATATAT 180
NAACCTGTG TATCAATNTG GGGTAATTNC ACATNTTTT CTATGTTGAG TTATCAATAA 240
ATTGATATTG TATATGNCTC TAAA 264

SEQ ID NO:3688

LENGTH:262

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04344

SEQUENCE DESCRIPTION:

GATCCTCAGT GCAAAATGTC TTGTGTANTT NTNTGTGAAT CCATGGGTCT GGCTAGAGGG 60
CCCAAAGCTT GTAAATATGG GGATAGTCTG GGTCAGACCC ATCTNTCCCT TACCCATCTT 120
GCTTCCAAGA CCATTTGTAG TGAGCGAGTG GATGCTGTGC TACGTGTGAA ATCTGTCTTT 180
GCGGGGCCTG TCTCAGTGAT TCGNTTTTGG TATTNGTTTG TAGCTTTCCT GGAAGTCAAA 240
TAAATGTTTC CCCCCTCCA AA 262

SEQ ID NO:3689

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04345

SEQUENCE DESCRIPTION:

GATCTCAAAT GTGAACAGTT TACTAATGCA CTACTGAAGT TTAAATCTGT GGCACAATCA 60
 ATGTAAGCAT GGGGTTTGT TCTGTAAATT GATTTCTAAT NTGAAATTAC TGAACAACTC 120
 CTATTCCCAT TTTNGCTAAN CTCAATTCT GGT TTTGGTA TATATCCATT CCAGCTTAAT 180
 GCCTCTAATT TTAATGCCAA CAAAATTGGT TGTAATCANA TNTTAAAATA ATAATAATTN 240
 GGCCCCCCT TTAAAA 256

SEQ ID NO:3690

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04346

SEQUENCE DESCRIPTION:

GATCTAAAAA GCTGAATAGC ATGTNAGTTA CTGGTTTCA ACTTGAGTTT NCTTTTAATG 60
 TTAATAAGAT TGAACTTTA GTATTTAGTG GGAATGGAA AGAGTTGCC TTGTTGCAAG 120
 TAATGAAGCC TGATTTGATT ATGAAGCTGC TTAATCACTC TTCATGTGTT CAGAATTACT 180
 GTTTTNTTG TTTGTTTNC CTTTNGTCA CTGTGGTACA TAAAAATTT NGGGAAGATG 240
 CTTTACCTAA A 251

SEQ ID NO:3691

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04347

SEQUENCE DESCRIPTION:

GATCCCAGAC CTGTNGTCTC TCCCACCCCC TCCCCAAAGC CACTGGAAGG AGCACATACT 60
 ACCTAGAAGT AAGANGNNGA GCCTCAGAAG AAAACAAAGT TCTATTTTAT TAATTCCTA 120
 TGTGTGTGT TGTAGTCTT GTCTTAGCTC TGGACGTGAA ATACTTCGAT GATGATGATG 180
 ATGATGATGA TGATAATAAT AATAATAATA ACAACAACAA CAACAATAAT AAAGATGTGA 240
 AAACTCGAAA 250

SEQ ID NO:3692

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04348

SEQUENCE DESCRIPTION:

GATCTCAGAT AACTCAGTAC AGATAGCAAT TAGTCAGCTG ATTTGATTAC AATGGAGTAA 60
 CCGACAATAT ATTTATTTAT AAAGCACATA TTCATAATAA CGAGAAGAAT TCAGAAAACC 120
 ACTTAAGCAA GACCCCTTCTG AAATAAAANN TGTNGCTTTT TAAATAGTTT GTCCTAAGGT 180
 GTTTAAANCA TGTCAACCTT ATGTAAGGNN AANTTTCCTG GTCCAANTAA NGTTGANGTT 240
 TAAGGAAA 248

SEQ ID NO:3693

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04349

SEQUENCE DESCRIPTION:

GATCCTGGTT GGAAGGATGG GGAAGGCTTC AAGGGGCTTT GGAAGAGCTC TTCTAGCCCT 60
TTATAAAGG AGGGCAGCAG CTGAGACTGA TGAGAGGAGG GCAGCCTGCT CTGTTCTTTC 120
AGGGCCCCC ACCCCATCT CCCCTACCCT AGCCACCCT AGGGCCTCTA CCCAGCGGGA 180
GGGGTTGAAG ACCAGGCCTG GTTTTATTAG AATTCATTTT GTAATAAAG CTTTTTTAG 240
TGGTGAAA 248

SEQ ID NO:3694

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04351

SEQUENCE DESCRIPTION:

GATCCTATTT TNATGAAATG TCCAGAACAG GCAAATCCAC AGAGACAGAA ACTAGACGAA 60
TGGTTGCCTG AGGGTGAGGG GAAACAGGGA GTGACTGATG ATGGGTTTTG TGTGGGGGCA 120
ATAGAATGTN CTAATTTG ATAGTAATGG TTATACAAC CTGAATATAC TAAAGCCAT 180
TGTACACAG TTAAGGG TGGATTGTAT GTGAATTCTA TCTCAATAA GCTGTTCAA 240
AATTCAA 248

SEQ ID NO:3695

LENGTH:245

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04352

SEQUENCE DESCRIPTION:

GATCCACTCC GCCATCGATG CATCCAGAC CCCCAGTGTC GTGTCGCAA GCATCCTAGC 60
AGCCTTCTCC AAAGCCACAT GTAAAGACTT GGTTATGTT ATCTAATGTT GGTCCAAGA 120
AGGAATTTCT TTCCATCCCT GTNAGGCAAT GGGTGGGAAT NATAGGACAG GCAAAGAGAA 180
GCTTCCTCAG GCTAGCAAAA ATATCATTTN ATGTATTGAT TAAAAAGCA CTTGCTTGAT 240
GTAAA 245

SEQ ID NO:3696

LENGTH:243

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04353

SEQUENCE DESCRIPTION:

GATCTCAAAA CCACTATTTT TATTATTCA TTATTTTCA GAGGCCTTAA AATTCTGGAT 60
AAGAGAATGG AGGAAAATAC TCANCGGTAC TTCATTATTT NATTCCTTT TATTAATAA 120
TTACTTCTAT GTTTNATTG TCTCTTGAGC CTTAGTTAAG AGTAGTGTAG AAATGCATGA 180
NCTTCATCCT AATAAGGATA AANCTTAAGG AAAACCACAA TAAACCATGA AGGTGTACAC 240
AAA 243

SEQ ID NO:3697
 LENGTH:241
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS04354
 SEQUENCE DESCRIPTION:
 GATCTNTCCA CGGTAGCACT TGNCTTTTC GACGCTTAAC CTTTCCGCTG TCGCCCCAGG 60
 CCCTCCCTGA CTCCCTGTGG GGGTGGCCAT CCCTGGGCCC CTCCACGCCT CCTGGCCAGA 120
 CGCTGCCGCT GCCGNTGCAC CACGGCGTTT TTTTACAACA TTCAACTTTA GTATTTTAC 180
 TATTATAATA TAATATGGAA CCTTCCCTCC AAATTNTTCA NGTAAAAGGT GGCTTTTCAA 240
 A 241

SEQ ID NO:3698
 LENGTH:239
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS04355
 SEQUENCE DESCRIPTION:
 GATCAGCACT GCACTNTTAG CTGAGAGTGC GGGCAAGACA TAAACTGTCC AGAGTTTNAA 60
 GNTTCTNGGA AAGACCGGAG GGCTTCTCCC CACAGAAGGC GGAGAGAGCT GGGNCTCAGA 120
 CATGGNTGTG CACCTTAATA AACCTGCTG TCTGCCTCCC TGACTCTGCT TCTNNGGAGC 180
 ATGGTGAGCA GCCCTNGTGC TCANCAGCCA TACCTATGGG ACACACACTA CGNAAAGGN 239

SEQ ID NO:3699
 LENGTH:236
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS04356
 SEQUENCE DESCRIPTION:
 GATCACAGGT GATTCACAGC TACACACATA AACACACCCA CCAGTGCAGC CTGAAGTAAC 60
 TCCCACAGAA ACCATCATCG TCTTTGTACA TCGTATGTAC AATGCAATCA TTTCATACTT 120
 TAAACTGGTC AAAAACTAA TTGTGATTC TAGTCTTGCA AAGCTGTATG TAGTTAGATG 180
 ATGTGACAAC CNCTAATATT TATCTAATAA ATATGTATTC AGATGAAACC TGTAAG 236

SEQ ID NO:3700
 LENGTH:235
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS04357
 SEQUENCE DESCRIPTION:
 GATCCATCCT TTATCAGGAA GTCTGAAGCG ACTATAAAGG TTTTNTNANTT CAGATTTAAA 60
 AACCAACTTA TAAAGCATTG CAACAAGGTT ACCTCTATTT TCCCACAAGC GTCTCGGGAT 120
 TGTNTTTGAC TTGTGTCTGT CCAAGANCTT TTCCCCAAA GATGTGTATA GTTATTGGTT 180
 AAAATGACTG TTTTCTCTCT CTATGGAAAT AAAAAGGAAG AAAAAAAGG GNAAA 235

SEQ ID NO:3701

LENGTH:232

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04358

SEQUENCE DESCRIPTION:

GATCCGTGTT CTCCATTTAT TAATGCATTG TAGACCAATT TAACTGCTGT GTTTCAGGAA 60
AATTCTTCCT AGTTTAATAA GCAAGCTAAA AGTTTTATTT TTTATATTTA GTGCTTAATC 120
TTTGCCATCAT GTTATGTAAA ATTAGCCTGC AGATATTTTC TCTCAATTCT GTAGACTCTC 180
GCAAGATAAA CATTCAAACA GTGAAACAAA CANTAAATA AATAAACCTA AA 232

SEQ ID NO:3702

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04359

SEQUENCE DESCRIPTION:

GATCCATCTG AACTATGAAG TGAGTACCTG GAGGAACTCC TACATTTAAG GCTTTCAAAG 60
GTTACAGGCT TTTCGTGTGT GTGTGTGTGT GTGTGTGTGT GTGCGTTTGT AGAAAAATGG 120
AATTCAAACA CTGTNNNTAG AATGTATGTT TACTTATATA GAATTAATGA ATNTATATAA 180
TAATAATNAC TGTATATAAT TNTAAAATAT AATAAAGTCT CTTTATCCAA A 231

SEQ ID NO:3703

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04360

SEQUENCE DESCRIPTION:

GATCTGGAGT TGAGAGCCAT GGGTTTGGAC ATGACTGGCA CAAACAGCTG TCATATGTTC 60
ATGGTCAGAT GTCATACATT CTCAGCTGTC TTGTTCCACC AGTATTTACC AGGAAAACAA 120
AGAATGTGTT AAGGGATGCT CCCCCACCCC ACATCTTAAG TCAGTGTGCC AAGTACTGAG 180
ATGATTTTAG GGACATTTTA TTTTAAATTA AATTTACAAT CTAATGGTAA ATTGAAA 237

SEQ ID NO:3704

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04361

SEQUENCE DESCRIPTION:

GATCATCAAC AAGATTTCCCT TGTGCAAAAT ATTTGACTAT NCTGTATCTT TNATCCTTGA 60
CTAAATTCGT GATTTTAAAG CAGCATCTTC TGGTTTAAAC TTGTTTGCTG TGAACAATTG 120
TCGAAAAGAG TCTTCCAATT AATGCNNNNT TTATATCTAG GCTACCTGTT GGTTAGATTC 180
AAGGCCCCGA GCTGTTACCA TTCACAATAA AAGCTTAAAC ACATTGTCAA A 231

SEQ ID NO:3705

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04362

SEQUENCE DESCRIPTION:

GATCAAAATT GAACCATTTGT ACAGTTTGGN TTCTGTTTGC TTCAAAATAT GTAGAATTGT 60
GGTTGATGAT TAATTTGCGA GACTAACTTT GAGAGTGTA CANTTTTGAN GAAAACATTG 120
AATGTTTTGC AAATGAAGGG GCTTCACGGA ATGTTACANT GNTACTAATA TAATTGGGCT 180
TTNNTNATGC AAATNGTTAA CACCAGCTAT TAAAATATAT TTNNGTAAA 229

SEQ ID NO:3706

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04363

SEQUENCE DESCRIPTION:

GATCGCTACC CACCTTCCTT CCATGGTTCC CACCCTCCAC GTTATTTTCC CTTTCTGCAG 60
CGGTTGCACT ACAGGTAGCT ACTGTGTATT ATGGACAAAT GAGAAATGAA TTCTTTTCT 120
GGCTGTCCAT CTATTTTATT TCAAATAAGG AAAAGTGTAT TTGGATTTTG TGAAATACA 180
TCTAGTGATG NCATTTTTTC AATGTTTNA AAAACCGTGT ACAGTAAA 228

SEQ ID NO:3707

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04364

SEQUENCE DESCRIPTION:

GATCCTCATC CAATTGGTGT TTTTCAGAAG TNTTCCAATA TTATGAATTC TGTGTTGTGG 60
AGAAAAGCAA CCATGCATTT ACTGGTCAAT GCCTTCTTGT ATATGTAATT CAATACTTTT 120
ACTTTTAATA TCCTCACCTT ATCTAATCTT TGATTTTGT CATGTAATTT ATTGCTTCAT 180
TAAGGTACT TTTTGTTATA CAAAATAAAA GCTGATATCC AAGGCAAA 228

SEQ ID NO:3708

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04365

SEQUENCE DESCRIPTION:

GATCTATGAA AATNTGTTTT GACCAACTT AGTATTAGGC AGGTACACAG ATAAGATTTT 60
CCATTCTNAA CATTCTCACT GTAATGCACG ACATTTGANG CACCTGNATG TGCTATCAAT 120
CAGGTGGGAA ATTTAGCATT ATATATTGGA AGCATTGAGA AACATTGGTC TNTCATTTCT 180
ATTTNNTTTT NCCCCTCTN TCCTCCTCCT GCCCACANT ATATNN 226

SEQ ID NO:3709

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04366

SEQUENCE DESCRIPTION:

GATCCTGAGA GCTTTGAGAG GGTGTTGCCA GTTTTAAGCT GAGATGGCCC ATTTGGAGCC 60
TTACAGAACT AGACCAGAAG ACATTTGTGG ATAAATCTGA ACTCACTTCC TGTGTGTAAC 120
TTCTAACTTC ACTGGTTCCT CCCATCTGAA TTGGCCACAT GCTTGCTGAA GAGACTTGTT 180
TTCTTCTTCT AAGACAGTGG TTTTGTTTTT TGGGTTTTTT TAAA 224

SEQ ID NO:3710

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04368

SEQUENCE DESCRIPTION:

GATCTGGGCA GAATCCGCCA AGCGGCTGGG CCCAGGCTGT GGCATGATGN ACGGAGNAAN 60
GAAGCACCTG GACTTCTAGG GATTCCTCCT TAGTCGCTGC ATGCAGAATT CTATGACACT 120
CTAATNATGA TTGCTAATAG CTTATGTAAA TATTTNNTT AACAATTTGG NCCTNCACTC 180
CTTNAAAAAC ACAAGGATTA TAAAATGGGT GCCNGCATTN NTN 223

SEQ ID NO:3711

LENGTH:221

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04369

SEQUENCE DESCRIPTION:

GATCGTATTC NTNATAAACT ATTACCAGTA CAGTAGCTAG TAGATATNNT GTGACTGCCT 60
CATTGTTTAT CTTGCTGCTT TGGTCCCTAT GGCTCTAGTA TGAACATTCT CGTGTCTTCT 120
GTGGAAATGA TTTCTGTGTT ATAGTTNCAN CTTNGGTAGA GGTGGGGATG ATTGTATTTT 180
GTTTTAGTTG ACATCATTCT CAACTNTTAG AAATACTGTT N 221

SEQ ID NO:3712

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04370

SEQUENCE DESCRIPTION:

GATCAGTTTG CGAGTTTGA TGAGNTTGT AAGGTTTNTN TTTTACAAAC TATGAATCAG 60
CAAATNTTTA AGATTGTACC ACATAGCAAA CATAAGCTG TTGAAAAATA ATGTATATAA 120
AATGCATATA ATAAATATTA AATNGTGAC CTGTATGTTA CTGTTGGCTA CATCATTTTG 180
TGTTGAATAA TAAAGTGCAA TACNNCCTT CTCCATAAA 219

SEQ ID NO:3713

LENGTH:214

TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS04371
 SEQUENCE DESCRIPTION:
 GATCATTCTG TATATACATA TTTTAAATTA TGCAAGCAAA CTAGGAGGAG AATGTNCAAT 60
 TTTAAGGGAT ACCTAATTTT CNTTCGGTTA GGGGATATTT TCCANCCTCT TGCTTTATAC 120
 TCTGATATGG GGTGTNTTTA TGANCTTTTT AATGTTATTT ANTCATGCAG ATTTCCAATC 180
 ANTGTATTGC NCATTCCTG ACAAANGGG NAAN 214

SEQ ID NO:3714
 LENGTH:215
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS04372
 SEQUENCE DESCRIPTION:
 GATCCAAAAN ATAAACTTG AAGCTATTCT GGAAC TAACA TGGAAAAATG AAATGGCTAT 60
 TGTTTAAAAA AATGATAGAA ATACATTGTT GATGGGATAT GAGTTAAGTT TATTTTCTAC 120
 AAACCTGTAA TTGATGACGG CATGGATAAT ATCTTCATGT TTCTGACNAG TAATCTGTAT 180
 GTGGGGGGAG GGGATAATAA ATATTTCTAA CCAAA 215

SEQ ID NO:3715
 LENGTH:335
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS04373
 SEQUENCE DESCRIPTION:
 GATCAAAAGT GAACACCCTG GCCTATCCAT TGGGGATACT GCAAAGAAAT TGGGTGAAAT 60
 GTGGTCTGAG CAGTCAGCCA AAGATAACA ACCATATGAA CAGAAAGCAG CTAAGCTAAA 120
 GGAGAAATAT GAAAAGGATA TTGCTGCATA TCGTGCCAAG GGCAAAANTG AAGCAGGAAA 180
 GAAGGGCCCT GGCAGGCCAA CAGGCTCAAN GNAGAAGNAC GANCCAGNNG ATGAGGAGGA 240
 GGAGGAGGAA GANGNAGATG AAGATGAGGA GGAAGAGGNT GAAGATGAAG AATAATTGGC 300
 TATCCTTTAA ATGATGCGTG TGGAATGTGT GTACN 335

SEQ ID NO:3716
 LENGTH:211
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS04374
 SEQUENCE DESCRIPTION:
 GATCAATGT GCTGCAGCTT TTGCAGAAAA CAACTCAGAA ACACAAAACC CCCCAACAGC 60
 TCAATTATTA TTTTTCAT GTTTTCCTAC AAGAGCCAAG TAGCACCATG TACAGAAGAC 120
 GCCTTTTTTT TTGGAATATT GAAATCGTTC TGCATGTAAA ATATGGGATA ATGACCTGTT 180
 TATATTAAAA TTCTGATTAA ATTATCTGAA A 211

SEQ ID NO:3717

LENGTH:390

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04375

SEQUENCE DESCRIPTION:

GATCAAGAAT TCTACCATCC CTTGGGTCTT TGTGTATAAA CAATGTATAA TACCAGGTAG 60
ACTCAGTCTT TAAGATATTA GACAGTTTTT TTAGTCCATG GGNTNNNNAA TATAACATT 120
AACTTTCCTA TAAGANTATT TTGGCTTTGT AATCTATAGC CTCAAATTGG TATTTATTAT 180
GGNTTCACTA GACAAACAGC TGTTTCCTTA TTGNTTTTNN NCTTTAGTGT TTCTGATTTG 240
CTATCAGTAG CTGTTTTTAA AGCCGNCCAA GGNAAATANT TATTTGCAGT TTTTGAAGT 300
CACTTTTTGA GCCCTCATNC AAGCTCTCAT TGTGGNTGGG GAGGGATACC NTTTTTGGTT 360
GTAAAAGGC CTATNATTGG TTAAAGGGCN 390

SEQ ID NO:3718

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04377

SEQUENCE DESCRIPTION:

GATCTTAGAG CTGAGGAATT GGCCTCCCAA TCCGAACAGG TGTTATAATC CTTTCTNAAT 60
AGGTTGTGCT GTGGACCCAA TGTNAGGGCT GTNCTGGTGT AAATGGTGAC ATATTGAGCT 120
GGGGGGATGC TTTCGGGGTG GGGGGACTGG TTCCATTCCA TCAAAAGGCC CTCTTGAGAG 180
TCTATCCNGG GNCCCATTGG TTNAATTAA CAGGCCAGNA AAGANGGTTG NTNNN 235

SEQ ID NO:3719

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04378

SEQUENCE DESCRIPTION:

GATCTCCTGA GCTCAGGCAA TCCGCCACC TCGGCCTGTC AAAGTGCTAN GATTACAGGT 60
GTGAGCCACC ATGGGTGGCA TCTTTAATAT AGATTTATAA GGCCCNNTG TTATATATTT 120
NNAAAAATTC AAATTA AAC TANATCCCA AATGTCCCN TTTAATGA AGTATTTTGT 180
CANATGGATG TTTTAAAGCT GTGTATGTN 209

SEQ ID NO:3720

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04379

SEQUENCE DESCRIPTION:

GATCTAGGAT TACTCTGGAC CTCATTCGGG TGTTATGAGT ATCCCACGAA GGCCAGACGC 60
TGATTTNATT TNCTCATTT CACAGATTGA CAAGGATAAG TCAGNNGTTT GTAAACTCTA 120
GGTAGCAGAT GAGAAATAAT TCACTTAATA TCAGAAATAT TTNCCAAACA CTTTCCTTNA 180
TTTTTCCTTC TGANTAAATA GANANCCNN 209

SEQ ID NO:3721

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04380

SEQUENCE DESCRIPTION:

GATCCAAGGA ACGTTTGGGG TTTCCTAGGT GGGCCACATC CAATCAGTGG AAGGTCTTAA 60
GAGCAAAANC TGAGGTTTCCT CAGAGAAGAA GGAAATGTTT TAAGACTTCA GCATCAATTC 120
CTGCCTGAGT TTCTAGCCTG CTGGCCTGCT CTACAAATTT CAAGCTTGCT AGCCCTCACA 180
NTCATATGAA TAAATTCCTT AAAATAAA 208

SEQ ID NO:3722

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04381

SEQUENCE DESCRIPTION:

GATCCTTTCC CCATGGACAG TGACAGAGCA ACTGGGCCGC AATGGCATAG GCAGAAGAAA 60
ATNTAATCAC TCTGGGGGTG ANTGGTGGTT AAAACGACTC ATGTAATTAT TTGGATTGTA 120
ATTTCNTTAC ACATATTTNT TTGCTTAACC CAGCATGTNA GATATATNAT NTAATCTAAT 180
AAAAGATACA AACTTATGGG CACACAAA 208

SEQ ID NO:3723

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04382

SEQUENCE DESCRIPTION:

GATCACCTTG GAGCTGTGGC TTCCCGGAGC AGCTGAGAGT GAAAGGAGGC AGTTCCTTTA 60
CTGTGAGCTC TCACGGCACG GTGCTCACGC CCCACACAGG GGCTGCCTTC ACTCGGCTTC 120
AGCAGCNGTT GACTTTTAAA TCATAAAAAG CCGCTCTATA TACAGTTTAC TCTGTTGCTA 180
GAAGGCAGTG GAACATAGGT ATTTAAA 207

SEQ ID NO:3724

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04383

SEQUENCE DESCRIPTION:

GATCCACGTA CAGTTTGGAT TTTCCTTCTA GCCTTCATGT GTGGCCCAAG CATCTATTTT 60
AGACTGTCAT GGTTGGCATT GTTCTCTGAG GTTCTGTCTT CCCTTCGTGT TTCTATGAGC 120
TTTAATTTGT ATGGTTCTTG TTCTGTTAAT GCCACTAGGG ACTATGTATT CCTGATTCCA 180
CCATGACAGC TACAGTAAAA CAGTAAA 207

SEQ ID NO:3725

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04384

SEQUENCE DESCRIPTION:

GATCAAGCAG GCACTTCAAG CCTCAATAGG ACCAAGGTGC TGGGGTGTTT CCCTCCCAAC 60
CTAGTGTTCA AGCATGGCTT CCTGGCGGCC AGGNCTTGCC TCCNTGGACT ANCTGGGGGG 120
TTCCGGGTCT CAAGAAGACA AGGGTGCTGG NCCTCCCTAA GCCAAGGAGA GGANTAAAGA 180
CAAAAAGCTN AAAAAAAAAA GAAA 204

SEQ ID NO:3726

LENGTH:202

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04385

SEQUENCE DESCRIPTION:

GATCTCGAAC TGTACAAAA TACATGGAGA CTAACAAACA GAACCACATG GAACTTTCAA 60
ACTGAAAAAA AAATTTGTCA CAAAACTTT GTGTCATAG TTAAGTTGAT TGTAATGATG 120
AATTGAATAT ACTCCTTTGA AAATATTTCA TCAAGTATGT TTCCTGCTCA TTGTGATACA 180
TTAAAAAAA ANTATGGGCA AA 202

SEQ ID NO:3727

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04386

SEQUENCE DESCRIPTION:

GATCCAGAAG GCTTACGAGT ATTTTATTAT CTTGTCCAGG ACCTGAAGTG TTTGGTCTTC 60
AGTCTTATTG GATTACACTT CAAGATTAAA CCAATCTAGA CTGAATATTG GTGTGGACAT 120
GGGGGGTGGG TGGGAGTAGA AAATTTTGTG TATATCAGGG CAGTATTTTT TTATGAACATA 180
TAAATGATTG TCTTTAATAA ATATGTGATA AAATCCAAA 219

SEQ ID NO:3728

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04387

SEQUENCE DESCRIPTION:

GATCATATTT AGAGGATATA ACAATTAGAA ATCTAGAAAA TAATTATCAC TTTNATAAAA 60
TNTTNAGTCA ACTGTACAAA TAATTACATA AAACATCAAT TAATNATGCT TAAAAATCAC 120
TAATNTTCAT AATATATAAT CACTATTTGT AATCAAAAAGT TTAATTTTAT NTNAAAAAAT 180
AAAAAATGCT TACTTGGAAA 200

SEQ ID NO:3729

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04388

SEQUENCE DESCRIPTION:

GATCAGCCGA ACTCTAGGGA CTTGGTGTTG CTTGGAAGGC ATCCATACCT GCATTTTGCA 60
TTCTTCGTAT GTAATCATAT TGCCAAAGAC AACTATTTC ATCATTTATT GTAAATAACA 120
CTTTTCCCCA GACCTACCAT AAAGTTTCTG TGATGTATTG TCTCCAGTT GCAATAAAAA 180
T TACTGAGTT GCATCAAA 198

SEQ ID NO:3730

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04389

SEQUENCE DESCRIPTION:

GATCTAAGAT TAATTCCTCA ACTGTTTTGC ACTCAACAAA GACATACCTC TGAGTTGGCA 60
ACCAGCAGGG TGGATAACGG GCCAGTGGTG ATAAAATCAA AGAATAGGTA ATGAAACAAT 120
CATCCAGTTA ACAATCAGCA AGGTTCTTCA GAGCCTAATT AATGTTTAAT TCTAAATAAA 180
T TGCAACAAT TAAGAAA 197

SEQ ID NO:3731

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04390

SEQUENCE DESCRIPTION:

GATCCAAAAG TTAAATTAG TGCATACATC ATGTCATTTC ACCTCCTGTT CCTAGGAACT 60
CTCCATTCCC AAGCATTGCC AGTGTTTTCC AGATAATCTT AGCTGTTGTC TTGTGCTGTG 120
GAAATGGAAG AAACCATCTT CACAGACTGT AGGAGAATTC AACATATAAT TTCTTAATAA 180
A TACTGTTTC TTTTAAA 197

SEQ ID NO:3732

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04391

SEQUENCE DESCRIPTION:

GATCTAAGGG AGTCCACTAT CTGTGCAATT GTATTTGGNT TTTTTTGCA CTGTTTCAAT 60
GCTGGTAATT GAAACCATTT TAATATATTT GGTTGTATTC ACTTTATATG TCCTTCCAAA 120
AATNTTGTTG TGTACAAACC ATGNNNNGA ATGTTGGCTT CCAAGTTTTT AAATAAGAAA 180
C TTTTGTAT TAAAA 195

SEQ ID NO:3733

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04392

SEQUENCE DESCRIPTION:

GATCCACGGA GCAGAGGTCA TCTGTCCCA GCTTGGCCA CTGAGGCCAG CATGGNTGGG 60
CCCAGGATGC TTGTCTCTCA GCTCCCATCC TGTGTACTTC CACATTGGTT TAACCAGAGG 120
AAAACCGAAA TCTACAATTG TNATAAACAC ATTTAAATGT GCGTAGAATC AGCCATACAA 180
ATTGTGAAAC ATAAA 195

SEQ ID NO:3734

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04393

SEQUENCE DESCRIPTION:

GATCAACTCC CCCAAGGCC GAAAGGTGCT GCATACCACG TACCANAGCC AGGAGCGTGG 60
CACACACAGC CTGGACATCA AGTGGTGAAG TNAGGCCAGG GNCTTCCAGC TGCTCTTGGG 120
GCCAGAGCCA AGAGCCTCTN AGTAGAGGGA GGGGCTGCCC TGAGTGGAGT ATTAAAGACA 180
CTTAAGAAAA CCAAA 195

SEQ ID NO:3735

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04394

SEQUENCE DESCRIPTION:

GATCCTGTGC CCTAGGAGCA CCTAGGAAGA CTGCTCCAT CTCCGCCCGC ATATCTGGGG 60
CACCAAGAGA GACAGAGTCG TGAGCCAGGC TCGCCTCATT CCTCGTCTTG GGAGAACCGG 120
ACCAACTTCC CCAAAAGGCC TTGCCGTGCA GAATTGGCCT GGTTTAATAA AGAACAGACC 180
TGNCCCAAGN AAA 193

SEQ ID NO:3736

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04395

SEQUENCE DESCRIPTION:

GATCTGGCCC TCCCAGAAC AATCTGGATT TCACGGAGAC AGCAACCAGA AGTTAAACCA 60
TGTGACTAAA AATGCATCTG GCTACTTTTT CATGTATGTA TGAGACAGAA ACTAATCCTT 120
ACTATCCTAT TAGGATACCA CTTTTCATTG CAAAGTTTGT GTCAATAAAG TCATTAATTT 180
TAAACATAAA 190

SEQ ID NO:3737

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04396

SEQUENCE DESCRIPTION:

GATCATAAGT AGTGGAGGAT TTAAAACCAG GCTGGCTGGC TCTTAAGGCC TATGCTCTTA 60
ATTNACCATG TNGAATTAAT TTACCATATT GAATTACACT TATGTNCACC AAGTNAGGCA 120
TTTNGGCAGC CATTGTTTAC GTTTTANTTT TGGAATAATT TAGAAAAGTT ACCAGAGTAA 180
TATGAAAGCN 190

SEQ ID NO:3738

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04397

SEQUENCE DESCRIPTION:

GATCCTCCGC ATCCCGTGCG AGGAAGAAGA TGTGGAGATG AGTGAGGACG CCTACACGGT 60
GCTGACCCGC ATCGGGCTGG AGACGTCAC TCGCTACGCA NNNNNGCTCA TCACAGCTGC 120
CAGCTTGGTG TGCCGGAAAC GCAAGGGTAC AGAAGTGCAG GTGGATGACA TCAAGCGGGT 180
CTNNNNN 187

SEQ ID NO:3739

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04398

SEQUENCE DESCRIPTION:

GATCTGGCCC TAAACTTGAA ATACCTCCTG CTCCTTTGGG GACTGGNCTT TGCNAAGAGC 60
ACCTGGGGAG GAGACTGGTG CTAAC TAAGC CAGTAAGTAA GTCCACTCTT TGGNTGCAGC 120
TGGTGCAAGG TCTACCCATA CCTTTTTATT TNCAGTGT TT AATAAAANTC CAGTGNGCAA 180
AGACAAA 187

SEQ ID NO:3740

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04399

SEQUENCE DESCRIPTION:

GATCAAGTTC TGCGNCTGAN GAGGCTGCCA AAAGTCAAAA GNGGGGCCTG GGAAGGCAAG 60
CTCATTCCTC ACAACGGCCT TTCCAGGCCC NGTTTTTCCC TTCCGGCAGC CTCTTGGCCT 120
CTAATTTGTT TATCTNTNGT GTATAAATCC CAAAATATGG AATTTTGAA TATTTCCACC 180
ATTAAA 186

SEQ ID NO:3741

LENGTH:185

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04400

SEQUENCE DESCRIPTION:

GATCTGCCTT CCTGCTGAAA CTTGTTCCAC CTCAGTCCCC TCATCTGTCA CACGCATGTG 60
GGGTGGAGTA GGGAGATGCG GGGAGCAGGG TGGGCAGGAA TACTGTTATC TATGTNACGG 120
GGCAGTCGTG AGGCTGAGAT GAGAATGCGG ATTAAAATGC CTGGCGTGCT CACCGTAACA 180
CCAAA 185

SEQ ID NO:3742

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04401

SEQUENCE DESCRIPTION:

GATCCCATCT NTACAANAAA CTTAAAAATT AGCCAGGCAT GATGGCACAT TCCTGTAGTC 60
CTAGCTACTC AGGAGGCTAA GGTAGGAGGA TTGCCTGAGC CCAGGAGTTC AAGGCTGCAG 120
TGAGCTAAGA ACGTGCCAGT ACACTCCANC NNGAGCCACA AAGTGAGACC CTGTCTCGCA 180
AA 182

SEQ ID NO:3743

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04402

SEQUENCE DESCRIPTION:

GATCAAAGTG GTAAAGACAA TGTAATAATT AACATTTTAA TACTGATGTT GTACACTGTT 60
TNTACTTAAC ATTTTGGGAA GTAAGTGCCT CTGACTTCAA CTCAAGANAA CACTTTTTTG 120
TTGCTAATGT AATCGGTTTT NGTAATGGCG TCAGAAATAA AAGGATGCTT ATNATTCAA 180

SEQ ID NO:3744

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04403

SEQUENCE DESCRIPTION:

GATCTNCGGA ATGATGAGCA CACAAGGCGG GAGCTAGCCA AGATGAAGCA GGNGCCGGTG 60
AACCTGAAGA AGGCAGAGAT ATGGCAAACA GGATTNGCGC TTTTGGNNAC ATGGAGTGT 120
CAGCAAAGAC CAAAGATGGA GTGAGAGAGG TTTTNAAT GGCTACNGA NCTGCTCTN 179

SEQ ID NO:3745

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04404

SEQUENCE DESCRIPTION:

GATCTGAGTG CCTCAAGATG GTTTTCAAAA AAATTTTTTT AAAGAAAATA ATTGTATACG 60

TGTC AACACA GCTGGCTGGA TGATTGGGAC TTAAAAACGA CCCTCTTTCA GGTGGATTCA 120
GAGACCTGTC CTGTATATAA CAGCACTGTA GCAATAAACG TGACATTTTA TAACGAAA 178

SEQ ID NO:3746

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04405

SEQUENCE DESCRIPTION:

GATCCGAGTT CCTCACCGCG GGCCGGGATG TGACCACCCT NTTCAGAGGT TGGACCCAG 60
GCTTCAAGCA CCGAGTGAGG GGTCTGTTGG GCCCCCTGGG AGAGTCTCTG GTGTGAAGTG 120
GCTTAGGTCT GGACTGGTCA GCTGTGGCAC CAGCCGGTCC TGCCCACGCT TCAGGATGGC 180
CGGGGGCTGC CCCTGTGGGA GAGTTGCCAA GACTCGGCGA TACCAAGGAT GGAAGCCAGA 240
GGCTGTGGCG AGGGAGAGCC AAGCATATTC CCAGCACCAG GGCCACTGCT GGCACGTCGT 300
AGACATCCAA TAAATATTTT TGGAAGGAGA AA 332

SEQ ID NO:3747

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04406

SEQUENCE DESCRIPTION:

GATCTNNATA CTGTGAATAG CAGAATGTAC AGATGAAGAA TATTAATAATN AGGGGCGTCC 60
ACTCCAAAAC ATATCACCAG AGTGACAAC TCAGCCCTCA GCCTCTGCAA TCCATATATA 120
TNCTGGTCTT GGGAGTCCAT AGAATACTGT TTCCTTCTAA TAAAGGTTTC AAACAAA 177

SEQ ID NO:3748

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04407

SEQUENCE DESCRIPTION:

GATCAATAAT AGTACCTTN ATTATACATT TATTATTGTN TCTCTCTCTG ATGTACTGTG 60
GATTGTACAT TTAACCTTGG AATGGCTTTG TAATAATCAG TCTTAAGAAA ATNTTGACAA 120
GCTCTGGTTG CTTATTTTAA GAAAATAAGG ACATTTAATA ATAATAAAAA AAAAGGGATT 180
AATAAA 186

SEQ ID NO:3749

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04408

SEQUENCE DESCRIPTION:

GATCCCCAGT GGATGCCTGA AACCGCAGAT AGTACTGAAC CTTATATATA CTGTTTGTTC 60
TCCTATGCAT ACATATCCCT ATGATAAAGT TTATGAATTT GGCCTTAAC AGCAGAACTA 120

ATAAGATGAA AGAGTTGTAA CAATATACTC TAATAAAAGT NATTTAAAT GTAAA 175

SEQ ID NO:3750

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04409

SEQUENCE DESCRIPTION:

GATCAACAAT GAGCAGAAAC ATCATCAGTC CTTCCAAGG ACCATGGCGT TTAATGTCTT 60

GGGCACCCCT TGGAAATCAC AGAAAGTCAG CNGTACTGGC CGTGTGGAAC TTNCATCCA 120

AGACCTACTT TNCAACTGAG TAAGAAGGTC ATTGTGCCN CTGCATTNNN NN 172

SEQ ID NO:3751

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04410

SEQUENCE DESCRIPTION:

GATCAAAAAA TGTTTATNCT GAATTCTNTA ATTTAAAAA NTCATACCTA TNAGGTGTGC 60

TACAGGAATT CAGATACAAT AAGTTGCATA TAAAACCCGA CCTCANN 107

SEQ ID NO:3752

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04411

SEQUENCE DESCRIPTION:

GATCTGACCA ACAAGGCCAC AGGAAAATTA ATAGCACAAG GAAGACACAC AAAACACCTG 60

GGAAACTGAG AGAACAGCAG AATGACCTAA AGAAACCCAA CAATGAATAT CAAGTATAGA 120

TTTGACTCAA ACAATTGTAA TTTTGAAT AACTAGCAA AACCAGAAA 169

SEQ ID NO:3753

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04412

SEQUENCE DESCRIPTION:

GATCTNCTTG GCCAGCAGGA CGTCCAAGGA CCAGAGCCTG TGTCATGTCC TNGAACAGGT 60

NTGCGGCGTC CTCAAGCAGG GGAGCTGAGC CTTCCANAGG CAGGGTGGGC TCCAGTTGTC 120

TTGAGGGTCC GGATGGGCTC AGGTAATAAA GAAACGGAAG CAGCAA 167

SEQ ID NO:3754

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04414

SEQUENCE DESCRIPTION:

GATCTGGGCT GTGGGGCCCT TGGGCCACGC TCTTGAGGAA GCCCAGGCTC GGAGGACCCCT 60
GGAAACAGA CGGGTCTGAG ACTGAAATTG TTTTACCAAC TCCCANGGTG GACTTCAATG 120
TGTGTATTTG TGTAAATGAG TAAACATTT TATTTCTTT TAGGTAAA 168

SEQ ID NO:3755

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04415

SEQUENCE DESCRIPTION:

GATCTATGAT TTATNATGTC TTAATAGACC CTAAATTGTT CTTAATTAC AAGAGTGGCA 60
GTCTCTGAAG TCATTTGTGA GCTTGTATGA CTTTGTATT TAGCAATGTT GCATGCTCAC 120
ATAATTGAAA ATAAAAGTA ACACATTTT CTGAAATGTA AA 162

SEQ ID NO:3756

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04416

SEQUENCE DESCRIPTION:

GATCAAAACA TAATTGTTTT AATTCTACAG CTGTAGGAGC TTTGTATTGC TGAACTTTCA 60
TCTGGAAGG TTTACAGTG ACATTTTAA AAGAGAATTT TTTTATCTGC CGAATTCTAC 120
CAGTGTAACC TTTTNTAA ATAAACAATA GTTTTNTCAA A 161

SEQ ID NO:3757

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04417

SEQUENCE DESCRIPTION:

GATCTCAAGA AGCCCCACAT CTTCTAAGG GGCCCCATGG CCTNNTTGG GNGCAGGGTA 60
GGTCCTGGGG CACTGTGGGC CGCCTGCCTG CTGATGTGGG CTCTAGGCCA GCTTGTGTGC 120
ACGTACGTGG TGTGAAATAA AGCCCAAGCA CTNGNTGAAA 160

SEQ ID NO:3758

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04418

SEQUENCE DESCRIPTION:

GATCCTGGGT GACTTTGGGT GCACAGGGTG ACCGAGCATT TCTGCCCTG TGAATGTGGC 60
ACTAACACTG TGCATGTCT CCACCAAANA AGGTTTCCAC TGAGTTTCTT CTCATGTAC 120
TGGGTTTGT AATGAATAAA CACATTTAA CTACTCTAAA 160

SEQ ID NO:3759

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04419

SEQUENCE DESCRIPTION:

GATCAATAAG AAGANCCTAG TCTAGAGACA ATGATGCTAG TTTGCATATG TTTTCCTATG 60
CAATAGTTGT TTTCCAGTN ATNCAAAGCA GCTTTCTATA TGTAAGATG CAAATNATTA 120
AGTTGTTNCC AATAACAATA ATAAAAGCAT CNGTTNTN 158

SEQ ID NO:3760

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04420

SEQUENCE DESCRIPTION:

GATCAGATTT GTAATTTNCC TGTATTAAAT GCCTAGAACT CTACAGTCAA CAGATGGCGC 60
TCTAGTTCCA ATTGTNACAG AAGTNTCTG CCCATCCGCA AGCAAAGCGT TGTTTTCATC 120
AGTGAAAAGA GAATAANCAC TGTGCTTTAA CTTTTAAA 158

SEQ ID NO:3761

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04421

SEQUENCE DESCRIPTION:

GATCTGTATG GTACTATAAA ATACTTATTT NATAATTCTG TAACCGTATG GCAGTGTTAT 60
GCCAAAAATG TATAAGAGC AATAGTTTTT GTTGCTTACT GCTGTATTTT AAAATATTGT 120
TTCTAAAATA ATAGNGTTAG AGTTCCTTTT GAGTAATTAT TTTTAAGGAC TATTGCCAAA 180
TATACATCCT GTAAAACCTA ATAAAAGCCA CTCCATCTTT NGGTAACCAT TTTAGCATTT 240
GTGCTTGGNG TACATNNTGG GTGGTTTTTG CNCGNTTAAN NANNTTANNN 290

SEQ ID NO:3762

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04422

SEQUENCE DESCRIPTION:

GATCCCACCC TCTNTCCAC CTGGGCNACT GACGCTCTGG CCTCTNTGGN AATNACACTG 60
GGCTGACCTG GCATTGGGAG AGGGAGGGAG GAAGGAAGGG AGGGAGGGGC TGGAAGATAC 120
TGAAGGATTC CTTTTTNAAG GGTTTTTTTT ATTGTAAA 158

SEQ ID NO:3763

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04423

SEQUENCE DESCRIPTION:

GATCCAAGTC CCCTGCCTGG TCCCCACAA GGNCTCCCAT CCAGGCCCCC TCTGCCCTGC 60
CCCTTGTNAT GGACCATGGT CGTGAGGAAG GGCTCATGCC CTTATTTAT GGGAACCATT 120
TCATTCTAAC AGAATAAACC GAGAAGGAAA CCAGAAA 157

SEQ ID NO:3764

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04424

SEQUENCE DESCRIPTION:

GATCATTTTN CATCTGTNCA TAGCGTTTCT NCAGAAGGAA CAGTAGTCTC AAATCTTTCC 60
TCATAATGAT AACAAAATGC TCTTGCATGA TTTNTAACA ATATATTTAA NCAGGAAGTT 120
GTCACGTATA TACTTTATTA AAAGGATTTT AATCAAA 157

SEQ ID NO:3765

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04425

SEQUENCE DESCRIPTION:

GATCGTGTGT TGCCATTTNG TCTGGCTGTG GCCCCTCCTT CTCCCCTCCA GACCCCTACC 60
CTTTCCCAA CCCTTCGGTA TTGTNCAAAG AACCCCTC CCAGGAAG AACAAATATN 120
ATTCTCCTCT CCCAAATAAA CTCCTTAACC ACCTAGTCAA A 161

SEQ ID NO:3766

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04426

SEQUENCE DESCRIPTION:

GATCTTGAGG TTGTTTGATG CTTTAAATTT TTNAATTATA TTATTTNNTA GGTGTTTATT 60
GGTACATTGC AGTTTTTTTT TTNAATTTA AAAATTTCTG TAAACTTTG TNTTCAAGTA 120
ATCTGACAGC ATTAAATATT GCATTAAAA ATTAAA 156

SEQ ID NO:3767

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04427

SEQUENCE DESCRIPTION:

GATCCGCAAG AACAAGTACC GCCCACCTG CGCNGGCAGC CATCCGCAGG CCAGCGCATC 60

CTGCGACAGA AGCCTGTAAT GGTAAGAGAA GCGACCCGCC CACCAAGAGT CCTGAGCCCC 120
TGCCAGAGA ATAAAGCAGC TGGCTTTCTA CCAA 155

SEQ ID NO:3768

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04428

SEQUENCE DESCRIPTION:

GATCCCAAAA CATCATNAGG CATTTTNAAG TTGGTCACGT CGCAAGTCCG ATATCACAAC 60
TTAATTGTAA AAGGAGGGAA TCTGGTTTTG TNACTTGGCA GTGGTTTTTT CTCACCCTTC 120
CTTTTAAACA ATAAATCCC ATTTGGGTCT TGAA 155

SEQ ID NO:3769

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04429

SEQUENCE DESCRIPTION:

GATCTATTTG ATAATTTNT GGGTTTTTTG AAGAATTAAT GAGCATGTAC ATAGAAATAG 60
TGACTGCTTG ANTACTGTAT TTNCTGCAC TCTTTCAGTA CATCAAGATT CCTGTATATN 120
TNAGNGTATA ATAAACACA GATGTGAGTT GTAA 155

SEQ ID NO:3770

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04430

SEQUENCE DESCRIPTION:

GATCGGCACA AGATGCTCAG CTAGATGGGC TGGTGTGGTT GGGTCAAGNN CCCAACACCA 60
TGGCTGCCAG CTTCCAGGCT GGACAAAGCA GGGGGCTACT TCTCCCTTCC CTCGGTTCCA 120
GTCTTCCCTT TAAAAGCCTG TGGCATTTTT AAA 153

SEQ ID NO:3771

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04431

SEQUENCE DESCRIPTION:

GATCTGAAGT GTGAGTAGAA TGTATTCAGC TGTTTAACAT GTAGTTTAGA TATTCAAAAAG 60
TATGCATGTA GAGTTTAAAG AATATGTAA AANTNATTAA TTTAATATT TTGTTTGAA 120
AAGCATGTTA TAATATAATG TTTTCACTAT AAA 153

SEQ ID NO:3772

LENGTH:152

TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04432
SEQUENCE DESCRIPTION:
GATCTGGNAC TCCTTGTAGT AAGCTGTTTT CTGCTCAGCC ACTGGGCTCT TTCACTTTTT 60
TAGTTCCTAA AAATTTATTT TTAAGTTCTA AAATAAAATA AAAATAAGTT CTAAAAATTT 120
ATTTTTTCC NGAATAAATT GTATTTGGTA AA 152

SEQ ID NO:3773
LENGTH:151
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04433
SEQUENCE DESCRIPTION:
GATCGCAAAT CACAGCTCAG ACAGCCAGCT CTTAAGTGAG ACCTGAGTGC CAGAGAGGGG 60
TGGATACAAG GCCAACAGTT ACTAAATGAA TGAAAATTGT GATTCCGATG AAGCCTGCCA 120
GAGAAATAAA GCATTTTTTA AAAGATGGAA A 151

SEQ ID NO:3774
LENGTH:151
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04434
SEQUENCE DESCRIPTION:
GATCTAGCCA TAAACTAGT AATCTTGAAT TCCTCTTGAG CTGGATGGTG ATTAGCCATT 60
GTGAAAACAG ATTATATGGA AATTGTGCAT ATTGCTAAAT TTAAAAACAT GGATTTATCA 120
ACTGATAATA AAATATATCT TACAAGATAA A 151

SEQ ID NO:3775
LENGTH:151
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04435
SEQUENCE DESCRIPTION:
GATCTTTAGC TGCCTTTGTA TCAACTTCTN TGGAGCTTAT GTGATTTTCC AGAAAATATC 60
CAAGGCATAG TTTTGTCCCT AAGTCCCAGT AATATGTAAT ATNTNGTGTC TCTCTATTAA 120
AATAGCACTT TTNGTGCATN CCATTAACAA A 151

SEQ ID NO:3776
LENGTH:150
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04436
SEQUENCE DESCRIPTION:
GATCCATCAA AAGGTTCTTT TTNATAATC CCTTTTGAAA ATAATAATCA AAGGAAGAGA 60

TGTGGTGT TT GGT CATGTGG AAAACTCAAT GTATAATTAA GACGTCTNTC AAAAATCCGA 120
CAAATAAAAT NAAGCTGGAA CGAAGGCAAA 150

SEQ ID NO:3777

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04437

SEQUENCE DESCRIPTION:

GATCCNAAAG CACACCAGGA AGATGCTAAA GATGCTTATA CTTTCCTCA AGAATTGAAA 60
GAAAAACCCA AAGAAGAGCC AGGAATACCA GCAATTCTGA ATGAGAGTCA TCCAGAAANN 120
NNNGTCTATA GTTATGTTTT GTTCNN 146

SEQ ID NO:3778

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04439

SEQUENCE DESCRIPTION:

GATCAGAGAA GTTTATGCTC ACTGTCTGAT GCAACTNTCT GGTCTATTTG TNAGTAAATA 60
ACAGGGAAAT CATTTTCACT TTTTGTTAAA AATAAGGTAT TTACAAGCAT ACCTTG TAGT 120
TATTGTGGGT TCAGTTTCAG ACCACTGCAA TAAAGTGAAT ATCTCAAA 168

SEQ ID NO:3779

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04440

SEQUENCE DESCRIPTION:

GATCTGACCC ACCAGTTTGT ACATCACGTC CTGCATGTCC CACACCATT TTT CATGACC 60
TTGTAATATA CTGGTCTCTG TGCTATAGTG GAATCTTTGG TTTTGCATCA TAGTAAATA 120
AAATAAACCC ATCACATTG GAACATAAA 149

SEQ ID NO:3780

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04441

SEQUENCE DESCRIPTION:

GATCGGGACC TGACCTGGGG CTGGCCTCAG GCCCAGTGC ACGTAACTGC CCTCTGTGGA 60
AGCCAGCTTA AACCCTAGCC CTNTNAGAGC TTCCTGTGCC CAGCAGGAAG GAAGTCAAAT 120
AAACCACACT GACTACCTGT GAAA 144

SEQ ID NO:3781

LENGTH:144

TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04442
SEQUENCE DESCRIPTION:
GATCTAGGGG GAAAGAGGAG CATTATCAC AAGTTTCCTA GAGAGAGGAG ACAAATCGGT 60
GTGCCATTGA CAACATGAGC CAGGGTAAAG GCACCCTTNN NNNTTACTGA TTTCAAAGAT 120
TAATAAAGTA ATTCTATTTT TAAA 144

SEQ ID NO:3782
LENGTH:139
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04443
SEQUENCE DESCRIPTION:
GATCTATGAC TCATTTGACA GAGAAGCCAA GGAAAAAAG CTTGCTTGGC CCATTAAGTC 60
AAATCCACCA AATACTTTTG TCTAAGTTCT CATTCTTTCA ATTGTTATGC ACCAGAGATT 120
AAAAAGCTTT AACTATAAA 139

SEQ ID NO:3783
LENGTH:137
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04445
SEQUENCE DESCRIPTION:
GATCTGTGTC TTGAAGCAGC TGCCCTCATT CCGACTTCAG AAAATCGAAG CAGCTGGCTC 60
CTCCCCTTGT TCTCTCTCCC ACCCTCCCC AAATCTGTTT TCATGTAAAA GACAAATAAA 120
TGATGACTTC CCCCAA 137

SEQ ID NO:3784
LENGTH:137
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04446
SEQUENCE DESCRIPTION:
GATCAAAATA AAAATGTACA TGACGGGGAA GGGAAAAACC TGTGGAGTT GCTTCCAGCC 60
AGCCACGCTC CGGGCCAGCA TGTTGGAATC CAGCGTGGAG CAGATGCAGT AAAAAATATGG 120
TTGGTTTCTG TGTGAAA 137

SEQ ID NO:3785
LENGTH:137
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04447
SEQUENCE DESCRIPTION:
GATCTCTCTC TCNTTTTACC CCCCTTAGGC TGAGGGTAAA AAGCTGGGAT TGGTAGGCTG 60

GGTCCAGAAC ACTGACCGGG GCACAGTGCA AGGACAATTG CAAGGTCCCN TCTCCAAGGT 120
CGGTCATATG CNGNNNN 137

SEQ ID NO:3786

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04448

SEQUENCE DESCRIPTION:

GATCGGCCAA GTATGCTNTT NTTTAGAGCA ATGTTTTGCC CTAGAGANTT GTAAAATTTA 60
TGTNATGACT CAGTACATAT GTGTTCTGTAC ATATATGATN GGAATAAAAT GTTTATGAAA 120
TATTNACTCA TAN 133

SEQ ID NO:3787

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04449

SEQUENCE DESCRIPTION:

GATCTGTGTG ACCTCACCTG CATTTGATTG AAAAAAGTAT GCGCGTAATT GTACCCACCC 60
AGTTCAAACC CGTGTGTAAG GGTCAACTGT ACAAAAAAGT TTGTGAAATA AACGTACTGG 120
AGAATCTTTA AA 132

SEQ ID NO:3788

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04450

SEQUENCE DESCRIPTION:

GATCAGTATT TAANATTATA CCAGTTTTNA TTAAACCCTT TCCCTCCCG ATAAAGAATG 60
TTCTATTTCT GCCTCCCCTT AAAGGGGAGA CCTCAGAAGT AAAGNAATTT NATGTTGTGT 120
TTTTNTTAAA 130

SEQ ID NO:3789

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04452

SEQUENCE DESCRIPTION:

GATCCCCCTT CACTTTTTGC CATGGTCATA AGCTTCCTNA GGCCTCCCTG GAAGCTGAGC 60
AGATGCCAGC ACCATGCTTC CTGTACATCC TGCAGAACCA TAAGCCAATT AAACCTTTTT 120
AATAATAAA 129

SEQ ID NO:3790

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04453

SEQUENCE DESCRIPTION:

GATCCNCCAT GGTGGACACG TCTGTNCTGT ATGTAAAAGG CATTACAAAT GTTTTTTAGC 60
AGATGAGACT TGAAGCCTTT CCACAGTCCT TGTNCTCTGA GATGGCTGTN GAGCTCTGCT 120
CANCTGTTN 129

SEQ ID NO:3791

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04454

SEQUENCE DESCRIPTION:

GATCCCTACC CCTCANCAAC TAGCTCCCTT GTCGGCCAGC TAAGAGAGCT GGGACANTGG 60
AGGCTGGCAG AAGCTGAGAC GTGACTGTCT AGGAGTAACA CTCATTAAAG CTTTCNTTTT 120
GGCAAA 126

SEQ ID NO:3792

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04455

SEQUENCE DESCRIPTION:

GATCTGAAAA AGCAACCCAT TTCCTAAATT CATATTTTNC CTAAACTTT ACTATGTTTT 60
NATTTTAAGA GGTTCTGT TATATACACT TTNACACAT GCAAATAAAC TTTATACCAA 120
GTGAAA 126

SEQ ID NO:3793

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04456

SEQUENCE DESCRIPTION:

GATCTGTTTA GAAAATACCT TTGAAAACGA GGGTAACTTT AAAAAATGGA AACTTTCAAA 60
TCCATTTATA TTTNNTTAT AANCAAACT TAATTTAAAG TTAAACAAAC TGGCTGAAAA 120
CTCAAA 126

SEQ ID NO:3794

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04457

SEQUENCE DESCRIPTION:

GATCACTGAG CTGCCNTCA AGGGGACCTG GANNCCGGGT CCTGGGGTCA TGCTGCCTCC 60

NAGGCTCCAA GGTGAGGGTC ATCTTCACGA GCAAAGAGAA CCAATAAAGT GACAACGNAC 120
GTCAAA 126

SEQ ID NO:3795

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04460

SEQUENCE DESCRIPTION:

GATCCAGGGC TTTGAGGCC TCTCCTCATT GAGTTCAGAG TCACATATCA GAGGNTTAAA 60
TCCAAAAGAA ATATGCACAC CCCTCTCCTC CCTCCAGTA AAAATAAATC GCTCCTCTTG 120
AAA 123

SEQ ID NO:3796

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04462

SEQUENCE DESCRIPTION:

GATCTCTGTG CTGTAAACTA AAACAAATTG TGCATTCCTT CCGGGGCCAT CGTCTTTGTT 60
TTCTTTTTTG TCTTGAATGA ATTTTAAAG GAAATATATA ATAAAAATGT TAACCAGAAG 120
GTAAA 125

SEQ ID NO:3797

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04463

SEQUENCE DESCRIPTION:

GATCTGGGGG CCCCCCAGC TGGCGGGAAC CCCAAATGGA CACAACTGT ACATTGCCA 60
ATGGGTTTTT TTCAGACCAT GGTTTTACT TGCAAATAAA CCTGAGTTCT TTTCTGAAA 119

SEQ ID NO:3798

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04464

SEQUENCE DESCRIPTION:

GATCTAAAN NATACTNTGT TCCCTCATAT GCATGCCCTT CCTTTCTATA TCCTTGACAC 60
CTTACTTTCC CATTGTAACA ATAAAAAAG TATCAATAAA ATAATTATTG GCAAATAAAT 120
TGGTGAGTTG AAA 133

SEQ ID NO:3799

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04465

SEQUENCE DESCRIPTION:

GATCCTGCAG TGATGGAATG TTCTGTCTTG ATTGTAGCAA CACCAATATN CTGATTGTNA 60
TATTATACTA TAGTTTTGCA TAACAGTTAC CATTAAAGGA AATTGGGTAA AAGGCTAAA 119

SEQ ID NO:3800

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04466

SEQUENCE DESCRIPTION:

GATCTCTTAG CAAATAGGAA TCTAGGTGTA GAATTIATAC ACATATATAT TTTTAAAAGT 60
ATAAAAATGA GAAAGTATGT ACAAAAAATC ATCCTAAATC TTAGAAAGGA GACATAAA 118

SEQ ID NO:3801

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04467

SEQUENCE DESCRIPTION:

GATCTGGGAG CCAGCAGCTG GATGCTGTGG CTGGCCAGAN ACACCTCCAG GCTGTGGCCT 60
GGGGGCTGGG GGGAGCCCCA GGCTGAAAAG GGTCCAATTA AAACAAATGG AGCCAAA 117

SEQ ID NO:3802

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04468

SEQUENCE DESCRIPTION:

GATCACATTC CAGCCCTCGC TGCTGGGGTG CACACCCCTT CCTTAGNTGA TGTGCTTGGG 60
AAACTCCCTC CCCCTCCTTC CCAAGAGAGA AATAAANCA CCTTCGCCTA GGNCAAA 117

SEQ ID NO:3803

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04469

SEQUENCE DESCRIPTION:

GATCCTGACC TCCTCCAAGG AAGAAATCCA GAAAGCCTTA AGACTAAGAC AACTTGACTC 60
TGCTGATTCT TTTTTCCTTT TTTTTTTTNN AAAANAAAAA TACTATNANC TGGAAA 116

SEQ ID NO:3804

LENGTH:115

TYPE:nucleic acid

01237

TOPOLOGY:linear

CLONE:HUMGS04470

SEQUENCE DESCRIPTION:

GATCAGAACT CCAAAACCAC TCCCACCCCT GAAGGTCGGG AGGGTCTGAG CAGCCCTGGT 60
GGCTNCTTGT GCTCAGGTCC TCAGTCCAT GGGAAATAAA AATGGCACCC TGAAA 115

SEQ ID NO:3805

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04471

SEQUENCE DESCRIPTION:

GATCAACATA TTTAGCTTAT ACAGAAATAA AATTAAGTCA ATCCACTCAC AAAGAATTTC 60
TATTTTGTA AAATGTAGCT TGTATTCAG TATAATAAAA TCTGATGTAA GAAA 114

SEQ ID NO:3806

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04472

SEQUENCE DESCRIPTION:

GATCANAGCT NTCCCAAAGA GGGAAAGCGG TGAGGTTTNA GGAGGGGCAG AAGCAGGGCC 60
GGCAAAGNTT GTACCTNCAT AAGGTGGTAT GGGGGGTTGG GGTGAGGCC TGAN 114

SEQ ID NO:3807

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04473

SEQUENCE DESCRIPTION:

GATCGAAAGA CTCAGGGAGA GCGGTCCTNA CCACCTGGAA GTAAGTCCCA CCTGGACCTT 60
ATNAAAATA CTCCTCCAC CTGGGCCCCT GCTGAAGCCN NNTTTTAAAA TN 112

SEQ ID NO:3808

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04474

SEQUENCE DESCRIPTION:

GATCTGTTTT GTGCATTGGA AGACCCACCA CAAGCTTGGC ANACTAANTN TTGTATCCTG 60
GGGCTCCNT CATCTCCAGG GAGACCAAAC CCCGGCCCTA CCAGNGCCCG N 111

SEQ ID NO:3809

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04476

SEQUENCE DESCRIPTION:

GATCAAGACT AACAAATAAC TTTGTGATGA AAATNCTTCA AAAATATAGC TACTCTTTTC 60
AAGTATACCA TTTAAATAT TTCATCAGGC AGAGCCCTGA CCAGGAAA 108

SEQ ID NO:3810

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04478

SEQUENCE DESCRIPTION:

GATCAAGAA ANTNAGGACA ACGAGAAAGT TTAAAAGTTC GAAAGCAGCA AGATNCCTTT 60
CCCCCTGGT CAATCCTGA CACAAGAGAA GGCAGAGACC CTGAAGCN 108

SEQ ID NO:3811

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04482

SEQUENCE DESCRIPTION:

GATCTTCAAG CAAGGGAAAT GATTCTTAAA AGGATTATCT GAAATTGAAA AACTAGTAAG 60
CAAATAAATG ATAAACATAA GTAAATTTAA NCTGTTGTTT GTATAAAACA ATTATAATGA 120
NGTGTTTATA AGANATTGTA AACAAATGTA AANCTAAATN ANCATTGTTA TGCAACATTA 180
AA 182

SEQ ID NO:3812

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04483

SEQUENCE DESCRIPTION:

GATCTCCCCA AACTAAAAAG TACAGTACTT GGAATTGTGT TCTTTATGGT TGTAAGTTG 60
GTAAAGCACT AATATGCAGA AAATAAAGGA ATTACACAGT GCAAA 105

SEQ ID NO:3813

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04484

SEQUENCE DESCRIPTION:

GATCCNAAGC AGTGAACATG CTGTTAATAC TTGTAAGACT CCTAGCAAAC TGCATTTAAT 60
TTTTTAAATT AGTTTTAGTG TACATAAAGG CATGNTTTN CAAA 105

SEQ ID NO:3814

LENGTH:105
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04485
SEQUENCE DESCRIPTION:
GATCCATGGG ATTNATAATT GAAATAGAGA TTGGAGACCC TCCTATTCAN TTCATAAGCA 60
ATNGCACCAC AGGTCANATG CAGTTATCTN AACTCCAGGA AATTN 105

SEQ ID NO:3815
LENGTH:104
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04486
SEQUENCE DESCRIPTION:
GATCTTGCTA AATTATTAGT TCTAGTAGCT TTTTGTAGA TTCATTAGGA TTTTNTACAT 60
ACACAATCAT GCTATTTGCA AATAAAATAA TGCTTTTATC CAAA 104

SEQ ID NO:3816
LENGTH:104
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04487
SEQUENCE DESCRIPTION:
GATCGAGTCC AAGGNAGACT ATGCCTCTN CTACCAACGN CAGGNCGTGG CGCGACGCCT 60
GCTGTCCCCG GCCGGCTCAT CTGGCGCCCC AGCCTCCCCT GNCN 104

SEQ ID NO:3817
LENGTH:103
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04488
SEQUENCE DESCRIPTION:
GATCAGCACT GTGGTGAGCT CCAAGGAAGT GAATAAGTTT CANATGGCTT ATTCAAACCT 60
CCTTAGAGCT AACATGGNTG GGCTGAAGAA GAGAGACAAN NNN 103

SEQ ID NO:3818
LENGTH:103
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04489
SEQUENCE DESCRIPTION:
GATCCCAAAC CTNAGCTCAA TCAGTATTGC CAGANAGGGG TAAGACTGGT TGGAAGCTGA 60
CTGCAGACTT NNTTTCCCCT TAGTATGTNC TGTGTTGTAA ATN 103

SEQ ID NO:3819

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04491

SEQUENCE DESCRIPTION:

GATCACTAAG CAAAGCTGCT AGTGGGATTC TATATTTCTG GTCATCTTTT TTATNATAAT 60
NTATTGCAAA TATTTTCTG AATAAATATA TGTGTGTGA AA 102

SEQ ID NO:3820

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04492

SEQUENCE DESCRIPTION:

GATCCTGCCA CCAGGGTTNT TTTGAAATAG TACCACATGT AAAAGGGAAT TTGGNTTNA 60
NTTCATCTAA TCACTGANTT GTCAGGCTTT GATTGATAAT TN 102

SEQ ID NO:3821

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04493

SEQUENCE DESCRIPTION:

GATCTTGTTT AATCGGAAAC CCCCCTTACC TCCTCTTTT CTTCTCTTT CTTTTTTTTT 60
TTAACTNAA ANATTTTAT GATGATTAAG ANGGAAGTNG TN 102

SEQ ID NO:3822

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04494

SEQUENCE DESCRIPTION:

GATCCCAAAC ACTCNATCCT GTAAGNCGGG TACAGTCCTA TTGTNTGTTN NCACACTGAT 60
GATGTGAGCC TGTGAGATGA GCCAATCACC AGTTGTTATG TN 102

SEQ ID NO:3823

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04495

SEQUENCE DESCRIPTION:

GATCTCATGT ACTGAAAAA AATTCTTAAT TTTATTGGAG TTTATACCAC TGTGAACTG 60
CAATATGACT GTAAGAGAGT AAAAAGATTG TNACATCTAA A 101

SEQ ID NO:3824

LENGTH:101
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04496
SEQUENCE DESCRIPTION:
GATCTGGGAG TCTGAAATGG TAGCNTTTTG TCCCTGTCTT CACACTATCA TAGGGAGAAT 60
CAAAAGANCT AACAAATATA ANCATGCTTT GTGAATNNCC N 101

SEQ ID NO:3825
LENGTH:100
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04497
SEQUENCE DESCRIPTION:
GATCTNTTTT NTNTCTATTT TTTGAGGTAC ATGCTACATA CATTTTNTNT GTAAACAACT 60
ATTTAGCATA TTGAATAAAA TAACATTTTA AAAATAGAAA 100

SEQ ID NO:3826
LENGTH:97
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04498
SEQUENCE DESCRIPTION:
GATCCCACGG CNAACACTCA CCACNCGCTA CCATACGCCN TCCCAGAGCT AGGGGCTGCC 60
TTAAAGGAAA TTGTAGCCTA AGTAGGTCAT GGCAAGN 97

SEQ ID NO:3827
LENGTH:96
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04499
SEQUENCE DESCRIPTION:
GATCAGCCAC ATCAACTCAG TTGTCCACCA CAGGGGAATT TTNAATGTCT TTTGTTTTTG 60
TNTTGTTTTG AAAATAATA AACAGGCAAC TGTAAG 96

SEQ ID NO:3828
LENGTH:95
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04500
SEQUENCE DESCRIPTION:
GATCTATTTG GCCTCTCAAA TGAAGTGAAG TTCCTGTAA AAAAGATTGA TGTATTGTC 60
TCTGTAGAG GAAACTAATA AAGCTGCAGG NGAAA 95

SEQ ID NO:3829

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04501

SEQUENCE DESCRIPTION:

GATCTATCAT AATTGCTTTT CTGATGCATT TAAAAATAAA TGGAACACTT AAATGTATAT 60
TACCGATGCA AACTGTGGAT AAAGTGAAA GAAA 94

SEQ ID NO:3830

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04502

SEQUENCE DESCRIPTION:

GATCAGAGGC CTGGCCGCGG TAACAGACTT TTACATGGAA TTGTTTAATT ATTTGTACTT 60
TTCATGCCAG AAAATAAAAG TTCAGAATCT TAAA 94

SEQ ID NO:3831

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04503

SEQUENCE DESCRIPTION:

GATCACTACG ATTAACGACG GTCGTAATGT TAAGACGTCG TCTCCATGAN CTTTGGGGGG 60
ACTTTAATNT GGAATAAAGA AACTATCACT NAAA 94

SEQ ID NO:3832

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04504

SEQUENCE DESCRIPTION:

GATCCAGATN AAGTGCTGAA GAAAAGAAAA AAGAAGTGGA GAAGAGTATG NTTATNCTTC 60
TCCTTATTAA AGAAATTNC TCAAAACAGC AAA 93

SEQ ID NO:3833

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04506

SEQUENCE DESCRIPTION:

GATCTATCCA GTGACGTGGC CTGGTGGGCG TTTCTCCTTG TACTTATGTG GTTTTTTGGC 60
TTTNAATACA GACATTTTCC TCCAGAAA 88

SEQ ID NO:3834

01243

LENGTH:86

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04507

SEQUENCE DESCRIPTION:

GATCCCAAAA TATGGTAAAG TGAACCCATC TGTCTGCATT TTCTACTCTG AGCCCATTTG 60
TTAATAAACA CTTATTTTTA TATAAA 86

SEQ ID NO:3835

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04509

SEQUENCE DESCRIPTION:

GATCCGGGGCC CCAGGCTGCT GCCGCTTTTT ATAACCTTAT ATTATTTTNN TTTAAGAAA 60
AAAAGCTCTT TAAAATACCT CAAA 84

SEQ ID NO:3836

LENGTH:82

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04510

SEQUENCE DESCRIPTION:

GATCTGAGGA GCAAACCTCC GTGGCACACA TTTACCTGCA TAACAAACCT GCACATCCTG 60
CATGTGTACC CCAGAACTTA AA 82

SEQ ID NO:3837

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04511

SEQUENCE DESCRIPTION:

GATCCAGGAG GCTCAAAGAG AAGCCAAGTC AGCTTTGTTG TGATTGATT TTTTTTAAAA 60
AACTCTTGTA CAAAACGAA A 81

SEQ ID NO:3838

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04512

SEQUENCE DESCRIPTION:

GATCGCTACT GTTATGTGGG ATTATTATTT CTAAATNTTA CTCATTGAAA TAAGCATACA 60
ATAANANGCA TTTATTGCAA A 81

SEQ ID NO:3839

01244

LENGTH:80
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04513
SEQUENCE DESCRIPTION:
GATCAAAACA AGACCCAGCT TATTTTCTGC TTGCTGGTAA ATTAAGCAAA CATGCTATAA 60
TAAAAACAAA ATGAAGGAAA 80

SEQ ID NO:3840
LENGTH:78
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04514
SEQUENCE DESCRIPTION:
GATCTGGTTG AAAATTGTAT TTCTATGTAA ACTCAACGAT ATGTTTGGTT TTCCTGAAAA 60
TAAATAATTT TAAATAAA 78

SEQ ID NO:3841
LENGTH:75
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04515
SEQUENCE DESCRIPTION:
GATCCTCACA CCTCAGCGTC CCAGAGTGCT GGGATTACAG TTGTGAGCCA CTGTGCCTGG 60
CCTTTTTTTT TTTT 75

SEQ ID NO:3842
LENGTH:74
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04516
SEQUENCE DESCRIPTION:
GATCAGAAAT CTGAGGTTCA ATGAGGCCAG AATAACTCAG CTTCAAAATG AATAAATGTG 60
GAAGCCAGCA CAAA 74

SEQ ID NO:3843
LENGTH:72
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04517
SEQUENCE DESCRIPTION:
GATCTCCCT TGGACTGATA CCCTTTTCCC ATTCATTCAC AAATAAATTA CAATGGGTGC 60
TGAGAACTTA AA 72

SEQ ID NO:3844

01245

LENGTH:78
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04518
SEQUENCE DESCRIPTION:
GATCTGTGTC ATGGTTTTAT AACCTTTNTN TTTTGTAAA CTTGAATGTT CAAAATTAAC 60
ATGCTGTTTA CTCTGAAA 78

SEQ ID NO:3845
LENGTH:71
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04519
SEQUENCE DESCRIPTION:
GATCAGGAAG AACTAAACAA AACCCACACT CCAAAAATA ACAAAGAATA AATAAATAAT 60
ATAAAAATAA A 71

SEQ ID NO:3846
LENGTH:71
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04520
SEQUENCE DESCRIPTION:
GATCTCAGAA CAGANTTAAA ATATTGTGAA AATTACAGCT TAATAAATGT TTATTGTAAT 60
TTTNTTGTA A 71

SEQ ID NO:3847
LENGTH:69
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04521
SEQUENCE DESCRIPTION:
GATCTAGGAC TTGCCTTATT TTATCATTTT TCTTAATAA TCTCCAATAA ACTTCTTTA 60
TTCATTAAA 69

SEQ ID NO:3848
LENGTH:69
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04522
SEQUENCE DESCRIPTION:
GATCACCCT AAAGAACTTA CTCATATAAC CAAATACCAC CTGTNCTCCC AAAAACCTAT 60
GGAAATAA 69

SEQ ID NO:3849

01246

LENGTH:69
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04523
SEQUENCE DESCRIPTION:
GATCAGTATG CTGTTTAAAT AATTATGTGC CATTTTAATA AAATGAAAGG GTCAACGGCC 60
CNNTTTAAA 69

SEQ ID NO:3850
LENGTH:67
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04525
SEQUENCE DESCRIPTION:
GATCTACACT GATGATTAAA TCAAATTGGC TAAGATTATT CGTTCTAATA AAAGCACTGA 60
CTCCAAA 67

SEQ ID NO:3851
LENGTH:67
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04527
SEQUENCE DESCRIPTION:
GATCTCTTCC TGTTTTGTAC ATAGATTTAT TTTTCAGTTC CAAGAAAGAT GAATACATTT 60
TGTNAAA 67

SEQ ID NO:3852
LENGTH:67
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04528
SEQUENCE DESCRIPTION:
GATCTAGCAT ATGTATCTTT TTAAAGGTA TTGTTAATAA ATATNCTGTC ATTTGTAAAG 60
ATANAAA 67

SEQ ID NO:3853
LENGTH:66
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04529
SEQUENCE DESCRIPTION:
GATCCATCTT CAAATCAAGG GCTCCCTGGC TACCAAATNC TGTCTAGTAA AAATNATTCG 60
AGCAAA 66

SEQ ID NO:3854

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04530

SEQUENCE DESCRIPTION:

GATCTATTCA ATGTACAAAA TATTTTGAAA GTTCTGTGA TTAAATGTNC TTTGAAAACA 60
TAAA 64

SEQ ID NO:3855

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04531

SEQUENCE DESCRIPTION:

GATCTGTTAT NAACACCTTT GTTGGCTTGG TTCAGTAATA AATATGTNAG ACTTTTCATT 60
TAAA 64

SEQ ID NO:3856

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04532

SEQUENCE DESCRIPTION:

GATCTGTGTA AGCTCTGAAT GAACTTCTTT ACTCAATAAA ATTAATTTTT TGGCTTCTTA 60
AA 62

SEQ ID NO:3857

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04533

SEQUENCE DESCRIPTION:

GATCCAAGAT ACGTCATTTT TGTATTGGCA AAATGCCACT ATTAAAGTGT AATTCTTGAA 60
A 61

SEQ ID NO:3858

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04534

SEQUENCE DESCRIPTION:

GATCTCAAGT GCTTAATGAT AAGGTGTTGA CTTGTAAAT TAAACCATTT GGAATACAAA 60

SEQ ID NO:3859

LENGTH:60

TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04535
SEQUENCE DESCRIPTION:
GATCAAATGC CCTAAATGT AGTGACCCGT GAAAAGGACA AATAAGCAA TGAATACAAA 60

SEQ ID NO:3860
LENGTH:60
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04536
SEQUENCE DESCRIPTION:
GATCTGAGAC TTTGAGTCTC CAGAACTGTG AGAAAATAAA TTTCTGTTTC TTAAGCCAAA 60

SEQ ID NO:3861
LENGTH:60
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04537
SEQUENCE DESCRIPTION:
GATCTTTCCT GTCTTCCCA AGTTTGCATT TCCGACATTA AAGTTTACTT TTNAGTTAAA 60

SEQ ID NO:3862
LENGTH:59
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04538
SEQUENCE DESCRIPTION:
GATCAATCAG GGAGAAAATA CAGAAGAGAA TAAAAAGAGA CTCATTTCAGT GGAAGCAAA 59

SEQ ID NO:3863
LENGTH:59
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04539
SEQUENCE DESCRIPTION:
GATCTGAATT AAGCTGTCTG CCATTGGAG AAATTTAAAT ACTATTTTAA ACACACAAA 59

SEQ ID NO:3864
LENGTH:58
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04541
SEQUENCE DESCRIPTION:
GATCCACCCA GGCCTTTCNG TGAAATAAAA GCTCCCAAGT TGGGTACAAA CCAGGAAA 58

SEQ ID NO:3865
LENGTH:57
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04542
SEQUENCE DESCRIPTION:
GATCCCAGTC TGAAGGATTA TTGTGAAGAA TAAATGAGAG AATGTGTAAA TGGCAAA 57

SEQ ID NO:3866
LENGTH:56
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04543
SEQUENCE DESCRIPTION:
GATCTGTGTA TTTGATTTTG TACTTTAAAT GTGACAAATA AACCTTTTGG GAGAAA 56

SEQ ID NO:3867
LENGTH:55
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04546
SEQUENCE DESCRIPTION:
GATCTAATTC TGA AACATT GTAATAAAAT AATNAGCTAT AATGGTATTT TCAAA 55

SEQ ID NO:3868
LENGTH:55
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04547
SEQUENCE DESCRIPTION:
GATCTCGAGC GTTATCTCG GGCTTTAATT TGCTAAAGCT NTGCACATAT GTAAA 55

SEQ ID NO:3869
LENGTH:85
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04548
SEQUENCE DESCRIPTION:
GATCTGCCAT GCACTCCAGC CTAGGCAACA AGAGTGAAGT CTGTCTCAAA ATAAAATAAA 60
ATAAAATAAT AATAGTAATA ATAAA 85

SEQ ID NO:3870
LENGTH:52
TYPE:nucleic acid

TOPOLOGY:linear
CLONE:HUMGS04552
SEQUENCE DESCRIPTION:
GATCAAAGGT CATTGTGTA GATGAGTAAT TAAAAATAT TTAAATCACA AA 52

SEQ ID NO:3871
LENGTH:51
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04556
SEQUENCE DESCRIPTION:
GATCAAAATAG AAACAGGGTT TGCAAGTNTC CATACAGATG CCTCTACCAA A 51

SEQ ID NO:3872
LENGTH:50
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04557
SEQUENCE DESCRIPTION:
GATCCTATGT AAAATATATA TTTATGTATT AAAAATACTG AAAACATAAA 50

SEQ ID NO:3873
LENGTH:443
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04597
SEQUENCE DESCRIPTION:
GATCCTATTT TATAAGGAAT CTTTTTTATA CGAATGTACT TATTCTTTTA GATATCAGTT 60
CTTGAATGTA TACTCCTTAT GATATACAGC AAGAGATTCT TGAGGTTCCC AAGAATTGTC 120
CTGGAAAGAA AATTGATTTT GAATTGAGAT TAGCAGTGTT TTAATTTTCG TGAGATAACT 180
CCTTTAACTC AGCACTTTCA CAAAACCTAA ATATTAAATA AATTGAATTT GAGGCTGGCA 240
TTCTTCTCTA AATTGAATTG GACTGGTTGT TTGCTGAGGT ATGAATGGAG CAGCTCGGAA 300
GTATTATAAT TCCGTAGCTG AAACAGGACG CTTATTTATG TATGNTCCAA TCTCTNCTCA 360
TTTAAAAATG NCTCAGCATT TCCNGCCATT TAGATAGGTA AATNAATAGT CCATTANNTT 420
TGNTNACCTA CCATAANTAT TTN 443

SEQ ID NO:3874
LENGTH:423
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04598
SEQUENCE DESCRIPTION:
GATCTATGGT ACAGTTCATT GGCAGAGAAT CCAAGTACTG TGGACTTTGT GATTCCATAA 60
TAACCATCTA TCGGGAAGAG GGCATTCTAG GATTTTCCGC GGGTCTTGTT CCTCGCCTTC 120
TAGGTGACAT CCTTTCCTTG TGGCTGTGTA ACTCACNNCC CTACCTCGTC AATACCTATG 180

CACTGGACAG TGGGGTTTCT ACCATGAATG AAATGAAGAG TTATTCTCAA GCTGTCACAG 240
 GATTTTTTGC GAGTATGTTG ACCTATCCCT TTGTGCTTGT CTCCAATCTT ATGGCTGTCA 300
 ACAACTGTGG TCTTGCTGGT GGATGCCCTC CTTACTCCCC AATATATACG NCTTGGGATA 360
 GACTGTTGGT GCATGCTACA AAAAGAGGGG GAATANGNAG CCGAGGGAAA TAGCTTATTT 420
 TTN 423

SEQ ID NO:3875

LENGTH:413

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04599

SEQUENCE DESCRIPTION:

GATCCAAATN ACCATCATCT CTGATGGAGA TGGGTTGGGT ACCTGGCCTT CATGGCACCT 60
 TCACTGCTAG GGATGCTCAA GGGGCAGGCC TGGGGCCTTC CCTCCTGTCT CTTCTCGGTC 120
 TTTCTCTCT GAGCANCCTC CTACCTCCCC TGCCTGAGCC TCACTCCACA GCCCTCCCAG 180
 GTACCTAGCA GAGGCTGTCA GTCCTTGGCT CACCTGGAAC AGGGCTGGGG CTGGGTTGGA 240
 ACAAGGTGTG TGCCNCACCA CATCTCTATG ACTCTGTTCT CCCTCCCTGC ATTGTGGCTC 300
 TTGTATTGA GGGCCTCAAG AGAGTGAGGC CCTACCATCA CTGTCCATAT TAAGTCCAAG 360
 CCAAGTGNG GTTCCTCTGT TCCCTCNTAA GCAATCAATN GTTNAGTTTC TAN 413

SEQ ID NO:3876

LENGTH:410

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04600

SEQUENCE DESCRIPTION:

GATCCACCTG CCTCGGACTC CCACAGTGCT GGGATTACAG GTGTTAGCCA CCACCCCGAC 60
 ATTATTTGAA ACTTTTATTT TATCATGAGA GAGTTCAGG AGTCAACTGG AGAGAGATTT 120
 TTGGTATGAA AATTACATAT GCAAAAAGAC TGATTCCAGT ACATGAAATT AAATTCAACA 180
 TTTACATTAA ATGCCCTCAA ATATGGTAAA ATGTTTTCTT TTGGCACNNT ACCTCATTAT 240
 GTTTTGAATG ATTTGGTCTA TCATATGAAA TAACTTTTAT AAATATAGTA NCTCAGGCCT 300
 GGGCACAGCG GCTCAAGTGG GAGGNCTGCT TAAGCACCCG AGTTTNAGAC CAGCGTGGAC 360
 AACATGGGGG GACCCCTTNC TGTCCCAAAA NTAGCTGAGC ATGGCAGCGN 410

SEQ ID NO:3877

LENGTH:402

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04601

SEQUENCE DESCRIPTION:

GATCCCAACA ATGGAACTTT CCTTCTCTGC TGTCACAAAA GGAATAAAAA ACTTCTGTGT 60
 GATTTGATAC AGACAATTTA GAAAACTTTT GTTTCAAAGT TTCCCATCCA GACTAGCCAA 120
 GGAGAGCAAG GGAGGGNNNC TAATAAGCCC ATTAAGGTGT CTTCCCAAAAC AAATGTTTTT 180
 TTTGTCCTTC TGCCCAAAATG CAGAAACAGC TGCAGCTTTA AAAANTAGCA TACTTTTATC 240
 TTTTGANGGA AATATGTGAA AGTTTtagca CTGGTTGTCT TTGGTTGGCA AGAAATTGTT 300

NAGTGTATN NATNCTTCC TATTTGNCTG AATTTNCCA AATTTGTCCA CAGCAAGCAT 360
GACTACTTN NTCATATNAA ATCTCCANTG NATTTATGCA AA 402

SEQ ID NO:3878

LENGTH:393

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04602

SEQUENCE DESCRIPTION:

GATCTTGTC AATAAATCTA ATTTATATCA AATTTATGAG AGAAAGTATT TTCCTAATNA 60
TGGTCAAATA AATTTGGTTA ACATCCTAGT GATTCTCTTT CTATATAATA AGGCAATTAC 120
AGTTTTCAAA GCATTAAGTC TAACATAACT TTAAACATTC TCTTAGGTTT CAAGACACTT 180
CTATTTAATA TTCATTGGGG AAAAGTTGTC CAGCTATCAG CTAGNGAAAA CACATGCAAA 240
TATGGTTGTG TAAAGTTAAG GGTATANGG NANNANANAT CAGTAGAATT ACATAATACT 300
AAANGTTGCA GTTGAAGGAA TATCCCAGTN TGTGTTGGTA GTTCTNNAA GNNTTNTAGC 360
TGTNATTGCC TTGTTTTNT AGCCCTTNGT TTN 393

SEQ ID NO:3879

LENGTH:392

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04603

SEQUENCE DESCRIPTION:

GATCTNAAGC TTNCTNCTTG GACACCCCAT ACCCANAGTC CTCCAGGCCA CCCTTAAGTA 60
CAATGTTCTC CTACCTAAGA AGGCATCTGG ATTTTNTCTT TCCTTGGAAG TAGTAAAGAA 120
CTACTCTTTG ACTGTTTTTG ACCTCACAGT GAACCTCAAA TACACTGGAA TTCGCAATAA 180
ATCCAGTATG GTGGTTATAG ATGTAAAAAT GCTATCAGGA TTTACTCCAA CCATGTCATC 240
CATTGAAGAG CTGAAAACA AGGGCCAAGT GATGAAGACT GAAGTCAAGA ATGACCATGT 300
TCTTTTCTAC TTGAAAATG TTTTGGTCG AGCAGACAGT TTCACTTTTT NCTGTTGAGC 360
AGAGCAACCT TGTGTTCAAC ATTCAGCCAG GN 392

SEQ ID NO:3880

LENGTH:385

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04604

SEQUENCE DESCRIPTION:

GATCTCACCA CTGCACTCTA GCCTGGACGA CAGAGGGAGA CTGTCTCCAA AAAAAACAA 60
AGAAAGAAAG AAAAAACTGT AAAAAAAT TTNCTGCAAT GGNCTTAATA TGTGTGTCCC 120
TAAAAATGT ATATATTGAA ACTCTAATCC CAATGTGATG TTATTTAGAG GTGGGGCCTG 180
TAGGAGGTAA CTGGGTCCTA AGGGTAGAGC CCTCATGANT GAGATTAGTG CCCTTATAAG 240
ANGCCAAAA GCTAGCTACC TCTNTTCCA CTATGTAAGG NTACAAAGNG AAGTTGGCTG 300
TCTGCAAACT AGAAGAGGGC TGATACAGTT TGGCTGTGTC CCCACCCAAA TCTTCATCTT 360
AGGTTTTTAA CTNCCGAAT TCCCN 385

SEQ ID NO:3881

LENGTH:383

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04605

SEQUENCE DESCRIPTION:

GATCTTAAGG TAATTACAAA AGGGAAATTC CAAGAATGCA TAACACAATG ACAACATGGT 60
GAGAAAAGTG CAGTACTACT TCCAAGGTAG CTAGTGTAAG GGACACTTGA GTTTTAAAA 120
CTGTGGTTAA ATGTTTTATG TGGAATTTGA TGAGTTTGTA TATTAAATAC CACTGCTTGC 180
TGCTTTTACT AGAATCAAGT TAAGGGNCAC GTTAGAAATA GAACAGCTTA ATATCACTGG 240
CTTCAGAGCA AAATGAGCTC GGGTGACTGC AGATTATGAT GGTAAATATG GCTTTAATTA 300
CAAACATGNG GNATGATTCA CTGAAGGTGA AAAGNTAGGG CGGNTGTGNT ATTGAAAAAA 360
AACCCANCAT TTTTGGCATT GAN 383

SEQ ID NO:3882

LENGTH:383

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04606

SEQUENCE DESCRIPTION:

GATCTATTTT TCAGTAATGA GTGTGTNCTC ATGCCTGTTT CAATATTGGG TTTTGGAGCA 60
TTATTGTACC AGGCTGTTGA TTGCATACTG TAGAAGATTT GATGTTTANA CTGGTTCTTC 120
TTCATATACT ATGTTTNGTC TCAGTTNCTA TGCTATTGGA TGATACTTCA TTTGTTGTTT 180
TGGTGCTGAT GAAAAGGGNA ACCTGCTCTC CTCTATTTAG ACCTTGACAC TTATTACTGC 240
TCAGTTGTTN CTGGAGCTGA AGNAATGAAA NGTCTGGAAG GAACAGCTAT CAGATGTGGC 300
CATTTGGATT GTNACAAATG AGGAACCCTG TGTACTGGGA CAGTTGCCAN AATAATATAT 360
GTGGCCTNCT ATAATGTGCA TTN 383

SEQ ID NO:3883

LENGTH:380

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04607

SEQUENCE DESCRIPTION:

GATCTGAAGC CAGAAGGGCT GAGTGTATTG TNAACTTATT CTTGCATGTN GCTGTCTGGG 60
AATGGACCAC ACTACAGCAG GTAGTNCTGG GGGCGATACT GCCGAAAGNC CGANCACATG 120
TATTTTGGCT GCAATTGAGG NNCTTGGGAT GCTATTAATT TTGTATTTCA GCAACTGCCC 180
CTTCTCCTAT CCCAAAGCAC CAATTACTNC CCTCTGCCTC AGNGGTACCA GTATAAGATG 240
ACATTCCAAA GACTGGAGGC AACTCAGCCT GAGTTAATTC ACAAATTAT GCCATGCTGG 300
GGCTTGAGCT TGAGCTTGGG CTTAGGCTTG GGCTCAGCTT TTGACCCTCA GGCATCTCCT 360
TTNCCTTNCT GTCTTNCTTN 380

SEQ ID NO:3884

LENGTH:377

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04608

SEQUENCE DESCRIPTION:

GATCTGTTCA CAAGCTGGTG TTCAGGAACC AATGTGTGAC TGGTCCATGC CCACTTCTGA 60
TTATATGGAC TCAGAGACAA TGTACATGGG AGTGCTTTGC CAGTGGTAAA GTTCTACAA 120
ATGGGAGGTA ATTGCATGGC AGGTGTAAAG TTATTTGGAC CATTGAGGCC AGAAAAATG 180
TAGATTTAAA ATATACTGAT ACTGAAAGCA GANCTGTTG ANCTAATTGC TAATTTAAG 240
GNATTCAGAC ATTCATCCAA AGGNTTTAGG CCAAATGTTG CCTAAATTGT TTCTCTATTG 300
CATATGAAAG TGATTCNGC GGCTTAACNG TTCTCTNCTN TTTATGTGCA TGGCCATAGC 360
TGGTTGTNTT CACATGN 377

SEQ ID NO:3885

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04609

SEQUENCE DESCRIPTION:

GATCAAGGTG AAGCTCACAG TGTCAGGCTT TCTGGGAGAG CTCACCTCCA GTGAAGTCGC 60
CACTGAGGTC CCATTCCGCC TCATGCACCC TCAGCCTGAG GACCCAGCTA AGGAAAGTTA 120
TCAGGATGCA AATTTAGTTT TTGAGGAGTT TGCTCGCCAT AATCTGAAAG ATGCAGGAGA 180
AGCTGAGGAG GGGAAGAGAG ACAAGAATGA CATTGATGAG TGAAGATGTC GGCTCAGGAT 240
GCCGGAAT GACCTGTAGT TACCAGTGCA ACGGGCAAAG CCCCACAGTT TAGTCCTTTG 300
GAGTTATGCT GCGTATGAAA GGATGAGTCT TCTCCGAGA AATAAAGCTT GTTTGTTCTC 360
CCTGAAA 367

SEQ ID NO:3886

LENGTH:360

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04610

SEQUENCE DESCRIPTION:

GATCAAAGTA GCTTACTATA TCTAACTGT AAAACAATAT AGTTTCTCCT GAACACCTGC 60
TTTCTTCTG GGAGTCTGGA ATTTTGGTAT GTGCCAGGCA GAGACTACCT TTGTGACCAG 120
CTCCCAGTAA AAACCCAGG CACTCAGTCT CTAACAAGCT TTTCTGGTTG ACAGTGTTTC 180
ACAAGTGCTG TTACAACTGG TTGCTGGGAG AATTAAGCTC ATCCTCTGTG ATTCCACTGG 240
CGGAGGATTC TTGGAAGCTT GCACTTAGTT TCCCCTNGAC TTCACCCAT GTGTCTTTT 300
TCCTTTGCTG ATTTTGT TTTT GTATCCTTTC ACTGTAATAA ATCATGGCCG TGAGCAGAAA 360

SEQ ID NO:3887

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04611

SEQUENCE DESCRIPTION:

GATCGCAAGT GACTGCTTCC GCTTCCAGGA CTGGGCCAGC TAGTGGGGGT GGCAGAGGTC 60

TCTTTGCTTC ATTCAGCCCT AGCTCTGTAG AGAAATGCAA ACCTCGACTC TCAAGGATGT 120
 GAGGAACACA AGTTCATTTT TGTGTGTGCG GAGACACTGC AGACTCCACT GTGCCGAGGT 180
 TGAACCTTN NTTGTTGCTC AAGTTCTAGG AGTCCCTTC CTGAATATAT ACTTGTTTGT 240
 CATAGTTTCC TTNNCAAAGT AGTAACTTT TCTATTNNTC TACTTGCCCA GTAGAGACTC 300
 TTGATTCTGG AANATTCTNG NCAAAATAAT TTTAATAATA CACATGGTTG CTTCTTAAA 359

SEQ ID NO:3888

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04612

SEQUENCE DESCRIPTION:

GATCACTTGA GGCCAGGAGT TCAAGACCAG CCTGGGCAAC ATAGTGAGAA TGCATCTCTA 60
 CAAAAAATAA AAAAAATTAG CTAGGCATAG TACCTGAGGC CAGGAGGTCC AGGCCGCAAT 120
 GAGATGTGTT TGTGCCATTG CACACCAGTC TGGGTGACAG AGAAAGACCC TGTCTCANGG 180
 GCANNTTAAA TAAATATCT TCATATATAA ATTAAGCTAA TTTAAANTAT TTTTCCCTGT 240
 ATTTNTTTAN TATTTTCTAA TCTGAACCCA TATNCAGCTG ACTANTTCAT TCTTAGAANT 300
 GTGTTATCTG TAATCTNTCC TAAACAGTGT AGCCCACAAG GNTCCATGGC ACTTTTAN 359

SEQ ID NO:3889

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04613

SEQUENCE DESCRIPTION:

GATCTAAAGG GGACACTGTA CTCAAGCTTT TNACCTCATG CCTTGTGTAG TAAAAAGGA 60
 TTTGGGGGTT TTGTTTGGTT CCTGAGAGGG TTGTGTTTTG TTTTGTTC CTTTGTTTA 120
 TGTTTTGGCC TTTCCTCTTT GTCTTTCCAT GTAGACCAGA TATTTGAAAG GGCAGACGAT 180
 GGCTAGAGGT GTAATGTGCA GCTTGTATTAT ACGGTATTTT GGGAACTTA CCTTGGATGG 240
 GAAATCGAAT CGTGGATTCA CCAGGCCGGT GCTGGCACAC TCACCCTCGC CCTTCCCTC 300
 CGGTTTCAGTA CCTATTGTTT CTCCTTTCAA ATATGTGATT GTACTAGCTC TTTCCATAN 359

SEQ ID NO:3890

LENGTH:358

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04614

SEQUENCE DESCRIPTION:

GATCTGATGG GCTCTAACAG TGCTTACTTG CAGCCTTGTG TCCACCACCA ACTTCTCATC 60
 ATGTTTCTCT CCGTTGGCCG TTGGGTTTCC AACTCTTCAA NCTTCAGGGT CTGGGNCAGG 120
 GAGTGGGCCC ACCATTTGTG GGGAAAGTAT CATTCTCCA CCTCAGGCTT GGGTAGATTT 180
 GGAAAAANAC AAGGTNAGGA TACGCCTGTT TGAGCTTTGG GGNATGAACT TTGCTTTTTA 240
 TATTTANCTA NGGNTACTTT TATATGATGG GTGCTTTGAG TGTNATTNAG CAGGNTCTCT 300
 TNGTTTCCCG AGGGNCCTGC TTTTGNAAGG TGACCNNGGT TACTTAAGCT AAGGNTTN 358

SEQ ID NO:3891

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04615

SEQUENCE DESCRIPTION:

GATCAACCCA CATTAGAGTG TCTAAGGACT CCTGAGAATT CCTGTTACAG TAAACAAAAC 60
TAACGTAATC TACCATTTC TACACTATTT GAGCATGGAA ATCATAGTCC CCACTCTGTG 120
AAAACCTAAC GCTTTTGGGA AGACATTTCT GTAGCATGTC AGTTTGGAGA AATGNNTGNG 180
CTACGCCTTG ATGAAAGAAC CGTGTGGTG CTGCTAAGTT TAGCCATTAT GGTTTNCCT 240
NTCTCTCTCT TAAGCCTTAT TCTTCAACTA AAAGATGAGG ATTAAGAGCA AGANGTTGGG 300
GGNNGATGTG AAAATAATTN TATGNGGTTG TCTAAATAA AGAGTAGTTT CTAAA 356

SEQ ID NO:3892

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04616

SEQUENCE DESCRIPTION:

GATCTACAAA TGTACGTTGT TACAGGGCTG CTTCTAAAG ATTTTTTTTA CCTCAGGTTT 60
CTCTTAATAT AGTTCTCCAG TCACTGACCT TGAATTGACT TACATAAATT ACTGCCAATG 120
TTTAAATTGC CCTTATGTTT ATATTTATTA TGCAAGCCA ATTCGTACAT ACAATTTGGA 180
ATCAAATGTC ATAAGAATTT ATTATATAAA TTTNTCAAGA ATAAAAATGC CTCTCCAGCC 240
TTAAGTATTT ACATGCTCCC AGGTCATTGT CAGTTTATGG TATTATGTTG TTTTATTTAA 300
AGCATTGAAT TGATAGAAAA AATTGCTCTG TAATAAAAAAT CTACTTTCAC ATAAA 355

SEQ ID NO:3893

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04617

SEQUENCE DESCRIPTION:

GATCTCATTG TTNTATGGC TGCATAGTAT TCCATGGTGT CTATGTACCA CATTTNCTTN 60
ATCCGGTCCA CCACTGGTGG CATTTAGGTT GATTCATGTC TTTGCTATTG TGAATGGTGC 120
TGCGATAAAC ATGCATCCAT GTGTCTTTAC AGCAGAACGA TTTATATTCC TTTGGGTATT 180
TTTTTTGAGT ATAGTAATAG GNNNNNNGGG TGGAGTGGCA GTTCTGTTTT AAGTTCTCTG 240
GGAAATCACC AAAGTCTTT CCACAGCAGA TGAAGTAGTT TAACTCCCA CCAGCAGTGT 300
ATAAGTGTTT CCTTTCTCT GCAACCTCAC CAGCATCTGT TATTTTATA N 351

SEQ ID NO:3894

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04618

SEQUENCE DESCRIPTION:

GATCTTCTTG TAAGCACATC CAGAGTGAGA CTTTTCTATG TTTGAAAGAA GAATGTGTGT 60
 ACATTTCAG AATTTGGGTT TTTTGGAGGG AGGAGGAACT GTTTACGTTT TTCCTCCACA 120
 CGTTTGATTT TTGACACATA CCCCCCTAAT TCCTCAACAG CAGACCTCCT GCAGCCACCA 180
 GGGGCCAGCT CTGTGTAGGA ACCAGATGGT CTTTTTCCAA GCNGCATCTT CAGCTGCCAG 240
 CTAAACTCCA ACCCCAGNCA GGGAGGGGCA GGCTCAAGTC TTNCAGAATC ACACAGGGGC 300
 AACACATGCA NNNNCCGGNA CCTGTNCTGT ACNGTCTNGG TTTNTTCNTN 350

SEQ ID NO:3895

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04619

SEQUENCE DESCRIPTION:

GATCCATAGG AGGGTAAAT GTCCGTTTTTTC TTCATTAAAA CTTCTCAGCT CAAATTTATA 60
 CTAAAGCATA TCCAGGAATT AAAAAAAG GTTTTGATGA TATTTGCTTT CTAGTTTAAT 120
 AAGTTTAAAT ACTGAATAGG TTAAATTAAT ACAAATAAC ATAAATGCT AATATTTATT 180
 GAGTATTTAC TTGTGTACCC ACTACGNTT TAAGTAATTT ACTGGGATTA TTTTATTTTA 240
 GTTAAACAAT GCAGGTAGCT ACTATAATCG TCCNGGTTTT ACACCTTGAGG AACAGGCTA 300
 AGAGAGATTA ANTTAGTGGC CCAAGGTCAG AAAGCTCGTA ATTCTTGN 348

SEQ ID NO:3896

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04620

SEQUENCE DESCRIPTION:

GATCCCAAAT ACTGCCATTG TGTTGTCTAC TTATGAGTTA ATTGTGTACC TGTTAGAAGA 60
 CCGTACTCAG TAACAGGCCG GAAAATTGTG CTCTAGAAGA ATAAACTGA AAAACTCTAG 120
 AGAATTTTTT TTCCCATTTG ATGTTTAGAA AGTTTGAGAC TGAAACAGGA AAGGCCATAA 180
 AATATCTGGT TCATATCACC TGTTGGACAT TTCCTTTTGG ATTCATGCTT TCTGGAAGGT 240
 TTAAATTCAT TAACGTTAAT AGTTAATTAT AACTNTTNT TTAACCTAAG AGGATTCAGG 300
 GTTAAGCACC AACTAAATTA AATCATGCTA TTAAATTTAN GTATAAA 347

SEQ ID NO:3897

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04621

SEQUENCE DESCRIPTION:

GATCTAGAAT CTNTNCTNGG NTAAGCATAT AGGATGCCAC TTCTTGCTAC CTCCACAGCA 60
 ATACATCACC TGGACAGCTT GCCACTCTTT GTTGCCCTGA ACTTCTCTGA TGTTTAGGCA 120
 GCCATTCTG GTAGTGAGAA CACAGTGAAT GAGCTACATC CTCCTGCTTT CTTCTTCTAT 180
 TATNACTTTT ACCTGATTTC TTCTCAGGAG GAAGCTGTAC ATTTTAACAG GACAGATAGG 240
 AGGAAAAGCA ACTATTTTTC TGCCGAGATA ACAATTGACA ACTTGGGGCA GTATGTGCAG 300
 AGTTTTCTG GAGTTGTATT AAAAATTATC TGATAAGCTG CCAA 345

SEQ ID NO:3898

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04623

SEQUENCE DESCRIPTION:

```
GATCAGTGTA CTGTTACCCG GACATACCTA TTCCTTCACA AGTTCTGGTT CTTCACTGCT 60
GCTTACTATT TTGGTAACTG GGCCTTTCTT GGGGTATTTT TGATTGGATT AATTGTATCC 120
TGTTGTAAG GGAAGAAATC GGTATTGAA GGAGTAGATG AAGATTCAGA CATAAGTGAT 180
GATGAGCCCT CTGTCTATTC TGCTTGACAG CCTTCTGTCT TAAAGGTTT ATAATGCTGA 240
CTGAATATCT GTNATGCATT TTAAAGTAT TAAACTAACA TTAGGATTG CTAACNAGCT 300
TTCATCAAAA ATGGGAGCAT GGCTATAAGG CCAGCGATAT TN 342
```

SEQ ID NO:3899

LENGTH:410

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04624

SEQUENCE DESCRIPTION:

```
GATCTGGTGC CCCTCTTCTC CTGGATTCAC ATCCCCACCC AGGGCCCGCT TTTACTAAGT 60
GTTCTGCCCT AGATTGGTTC AAGGAGGTCA TCCAACCTGAC TTTATCAAGT GGAATTGGGA 120
TATATTTGAT ATACTTCTGC CTAACAACAT GGAAAAGGGT TTTNTTTTCC CTGCAAGCTA 180
CATCCTACTG CTTTGAACCT CCAAGTATGT CTAGTCACCT TTTAAATGT AAACATTTTC 240
AGAAAAATGA GGATTGCCTT CTTGTATGC GCTTTTACC TTGACTACCT GAATTGCAAG 300
GGNTTTTAT ATATTCAATA TGTTACAAAG TCAGCANCCT CTCCTGATTG GTTCAATNAT 360
TGAATGTGCT GGNAAATTNA AGGTCGGTTN NANTTTAAAN CAAGGNTNCN 410
```

SEQ ID NO:3900

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04625

SEQUENCE DESCRIPTION:

```
GATCAAGATA TAGAGCATCT CCATTTATAA AGTTCCTTCA TGCTCCTTCC CAGCCAGCAA 60
TTCTNCTTAC TGTCCTGCTG ACTCCTGTTT TCACCTTCAT CACCATCAGC TCATTNGCT 120
TGTNCTTGAC TCATAACAG AATCATATAG TAGGTGGTTC GTTCAATGTA GGCAGTCTGT 180
TTNGCTTTA ATCATTACAT GAGTATACAT CCATATNGTG TGAAGCAGTA GTTCTTTNGC 240
ATTGCTGTGT AATATTCCAT TGTATAATTG TATAAATATA TGTGGTATAA ATGTAAGTAT 300
AGCACANTTG ATTCCTTATN GGGCCACTTG GTTTATTN 338
```

SEQ ID NO:3901

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04626

SEQUENCE DESCRIPTION:

GATCCACTGG TAAAGGGCAT CCCAGAGGNC AAAAAATCCCT TCAAGGAGCT CAAAGGAGGC 60
TGTGTGATTT CATAATACAA AAAAAAGAA AAAAAATTAN ACAAATTCTT GGAAATATCT 120
CAAATGTAA TAACAATATG ANTTTTTCTC ATGCATACTA TTACTACTAA GCATGTACGT 180
GANTTTTTAA ATGTATAGAT GTAAACTTTT ANTAAANNTT GGGGTGTGGT AACCCAAA 238

SEQ ID NO:3902

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04627

SEQUENCE DESCRIPTION:

GATCTCTATA AGTTATTAAT TTAACCTGAA ACCAAAGTGG TCTCCATTTA AAGTTACTTA 60
ATCCCTTTGT ACCACCTATT TCTAGTTAAA TATATGTNGC TANNCAAATA GGTAAGTGC 120
TTCCTTGCCA TGATGGTAAT GGATTGGAAC TATGAAGGCT CTCAGTGTAT TGGCTTCTGT 180
AAAGATGAGG CGTCTCCTCA GAANCCCNAA CTTTTCACAT TTCTGCTTAC TAGACCTGGG 240
TTGATGTACA TGGTAAGTCT CAAACAGATG CAAGCTATGT GCAAAAANGGA ACTTTAGCCA 300
AATGGAAATA GCTGGATGCT TTGNGAATTG N 331

SEQ ID NO:3903

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04628

SEQUENCE DESCRIPTION:

GATCCAAACT GTGTTGTTCT TAAATCAAAA ATTGGNTAAT TTTTAATATN TATGTATTAA 60
TCACAAA 67

SEQ ID NO:3904

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04629

SEQUENCE DESCRIPTION:

GATCTGCCGG AGTCTTGAAA TTCAGCTGAT TGGAAGTGGT TTCTTTGACT TTCAAGGTCA 60
TTCCCTATCA GTTACTACTA AGAGTTCTCT TACTGTCAGA ATCTCTCTTG CAGTACAGCT 120
CAAAATAGTG GATGCATTTT AAAGTTGACC ACCTTTTCCT ACCAGCTAGT TAGAAGTCAT 180
CAATATTTCT CTACATTTNG TTTATCTGTA AGTCCTTTAA ATCTATTTTN GCTAGGCATT 240
CATTATGATT AATAGTAGAC TTTTAAGACA ACATTTNTGT CACTCCCCAC CTCCTCATAT 300
TTNATAAAGG AGATATTTAC CTTGAAA 327

SEQ ID NO:3905

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04630

SEQUENCE DESCRIPTION:

GATCAAAGAC CAAAACATTT TCTTAAATAT ATTTTATGTA ATATTTTATT TGTATACAGT 60
GTTGTTGATG AAATATTTAA CTAGAGCATG ATATTTTAAA TGTTAAGGTG TAACATATGT 120
TAAATAAAAC TGTTATTTTN GAATTTNAAA ATTNGTTTTT NGGGGGTATG ANCTACTAGA 180
GTTTAAAATT CTGCCAACT ATTACTTATA TGTNCTATTG TGTAACATAC TTNCTNGAAA 240
TATTTNGGTT TATAGAATTG ANGGTTCTTA TCAGATGGGA TACTGGGGAC TATAACAAT 300
GGAAATAAAG CCACTGTATT TNTAAA 326

SEQ ID NO:3906

LENGTH:325

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04631

SEQUENCE DESCRIPTION:

GATCTAATTA AGCTAAATTT TGGTGCACAG CAGGTTGTAC ATGATTTTCAT GTTTATGTAG 60
CAAAATGCAT TGAATGTAT TAGTGTTGAA ACATACATGT AAAGGTAGTT GTGGAAATTG 120
TTATATTTNC CTTGTGTGTC ATTTATTTAG AGCATAAAGG TTTTTTTTAT TCAGCCNNNC 180
TGAATAAGGC TAAATGAATA CTGTAATTGA AAATATATTT NAAATCTTTG TCATGAGTTT 240
TTTTAAAAAA ANCTATTGCA AATTGTATCA TTCCTGATTA CACAGAACTT TGTGGGTGGT 300
TTTAANTAAN TNTNNTACTT CTAAA 325

SEQ ID NO:3907

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04632

SEQUENCE DESCRIPTION:

GATCTGGCCC GAGCTCTCCT CAGACCTCCC CAGACCTGTC TTCTCATCAG CCACCGCTGT 60
TTTCTTTTGC CGAACGATGG TTGCATCTCT CGGACACAGT GTACCCCTC CCAAGCCCTC 120
CCTGAGCCGT TCTCCTGAGT CCCTGAGGGC AGACACAGCT CCAGGGACCC AGGCCGGCTG 180
CCACACCCNC GACACTNCTG NTGTCCACTG GCCTTAGCTC CTGCAAGTTC CCCAGTGTCC 240
GCACCTGTTT CNTTCCCTGA CCTTACCTTN CTGGGGTCTG TGACTGACTG GAGATAAAAN 300
TAAAAGCAAT TGTGACANCT GAAA 324

SEQ ID NO:3908

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04633

SEQUENCE DESCRIPTION:

GATCAAATAC CGAAATTGAA CTTTCTAAAA CCTACACATA GCATGCGTTT AAATTCTATT 60
ATATAAAGCC CCAAGTGCTT TACCTTCTAA AACATGCTTC TCTATAGGTG CAAAGTTATA 120
AGATATGTAG AAGAAAACAT CCATCAGAAT CTNCTGGAGA NTATGGTCAG AGTCTTAAAC 180

AGGCCCAGTG CTGAGTNCTT TGTCCACTTA GTCACACATC TTTTGTGGGA ATGGGAAAGG 240
AAGGAGACAG CCAAACCTCTG ACAANGGCTT TTCCTTATAG ATTAACCCAA AGCCTAGGTG 300
AGGGTTGATA TATTAATGN 319

SEQ ID NO:3909

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04634

SEQUENCE DESCRIPTION:

GATCTGAGCA AAATGTGAAC TCAGTATGTT TACTATTGCT CTTACTTGAA AACTTTTTTT 60
CAAAAAAAGC ACAAATTAAG GTAGTAAATT CATATCCATA GATAGTTCAT TCATTCAACA 120
AATATTTACC AAGTTCCTAA TATAAGTGAA GGNCCACTTC TCAGATTACT AAGTCATTTG 180
TATGAATATG TGTGGCAGTG AAGAGAACAG GTCTTTCAAA AAGCATTTGA TTATCTTTAT 240
TTNTTTTAAA TACACTCTCT NATNTNCTA CTTGTTTTTT TGTTAATCAT AGCAGGATAT 300
GACAACTCTT ATTTGAN 317

SEQ ID NO:3910

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04635

SEQUENCE DESCRIPTION:

GATCTACTCA GATGTCATNA TACTCCATAC CTGCTTTTCC CATGGCCGCC CTACGGAAAA 60
TCCCATCCAC AGAGGCCAGG GCTACCCAAG NCCCTCCAGG TGAGCTGGGC CTTTCCTTTA 120
TGAACCTCCA TCCTCCCAGC CAGCTACAGT AGGGCCTCCT CACCCCGTAC CCCACAGCTA 180
GACAGTGTC AACTCATCT CCTCCTCCCA CATTTNTGGA GCTTTTTTTT TCCTCCNCA 240
TTGACCTTTG TGGTCTTCTG TGATTATTTA TGCTGCCTCC NAAGGATAGA ATTGAAATAA 300
AATGTTTTCA ACTTAAA 317

SEQ ID NO:3911

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04636

SEQUENCE DESCRIPTION:

GATCAAAGGT TCTTCATTCA AAAAGAAGCA ATATCCTTTT GCCTGATATG GGGTGGGAAG 60
GGTAGGTGGC GATGATATTT CAAATGAATT AGAAACCACC TCCCATTTGA TGATAGCTGG 120
AGAAATGGAC TGACCTAGAA GTTACAGGAC CAGAAACTAC AGTCACCACT AACCTTTCTA 180
CGTGGCACC AGCCCCACTT GGAGACATTA TTTTCCATC AAACACAACC GTACTGCACA 240
GACATCTTCA CTGTCTGTTG CAAAGATTGG AATACGTAGA TTTCTGTTCA AAATTAAATA 300
ATATTTTAAA TACAAA 316

SEQ ID NO:3912

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04637

SEQUENCE DESCRIPTION:

GATCCACTGG TAAAGGGCAT CCCAGAGGAC AAAAATCCCT TCAAGGAGCT CAAAGGAGGC 60
TGTGTGATTT CATAATACAA AAAAAAGAA AAAAANTTAA ACAAATCCTT GGAAATATCT 120
CAAATGTAA TAACANTATG ATTTTNTC ATGCATACTA TTAATACTAA GCATGTACGT 180
GANTTTTAA ATGTATAGNT GTAAACTTTT AATAAAANTN GGGGTGTGGT AACCNGNGG 240
GNCTATGTTT TNNTAACAT AGCTGGCACA GGGTTTAAAC CATAATNGCC ATAANTATTG 300
CTTAAGGTNC TTAAA 316

SEQ ID NO:3913

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04638

SEQUENCE DESCRIPTION:

GATCCACCTG CCTTGGCCTC CCAAAGTGCT GGGATTACAG GTGTGAGCCA CTGTGCCCGG 60
CCAAACCATT TTTGTTTAAT TTCATTTCTA CATGGTCGTC AAACGTGCCT ATCCAATGAA 120
GCCTTCATAG AAGGCCCAAG AAGACAGAGT TTGGGGAGCT TCTGGATAGC GGANATGTGG 180
AGGTTCCAGG AGGGCAGGGT GCCCAGGAAG GGCATGGAAG CTCCGTGTCC CTTCCCCATA 240
CCTTGCCCTA TGCATTTCTT CATCTGTATC TATTGTGATA TCCTTNACAA TTAAACTGGT 300
AAACATANAT AAA 313

SEQ ID NO:3914

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04639

SEQUENCE DESCRIPTION:

GATCACCAGC TCACGTCATG TTGCCTTCTC TTTTCTTTGT GTGTGTGTTT ATTTAAGTNA 60
TTTTTCTTCC TCCTCTCCCT TTTCTTTTGG GCCCTCCCTC CCTCCCTCTN CTGCCATGTA 120
ACTGGAGGAT GTGCTATGAG TTTGCAAACA GCTGGACTGT CAGGCTGCTT TTTTCCAGA 180
TGTTCTCCT CTGCCTCCCC TTCCCTCCT CTCCCTCCT TTTCTTCTT TCCTTCCTTT 240
CCTTGAGCA CTGAGCACCA TTTGGAAGCT TGAGAGAAAC CAAAATTAAG GAGAGAAAGA 300
GAGAGCGTGA AA 312

SEQ ID NO:3915

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04640

SEQUENCE DESCRIPTION:

GATCTAGAGG AAGTACAGCC ACCCACTGAC ATCTGANTTT ATATACCTNT TGAGTTTTGA 60
GTGCACCCAA AACTCGATA AACCAGGTGA AGAAATTTAG CTTCCATGTT CTACTTCAGC 120

TAAAACAGCT ACATACAACC TAGTACCCTT GANGTCAGAC AGACATTTC A GTTGCTTACC 180
TCCAGTACTG AGCCTTGCTT TGGGAAACTA AAAGATTTAG ACCAAGTCAC TGCCAGTTTT 240
NGCCTTNGTN GCATTNGTA CAGTTTTTAT ATNTNGGATA TCTTGTAAT AAAGACAGCC 300
AGCTTTTCAA A 311

SEQ ID NO:3916

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04641

SEQUENCE DESCRIPTION:

GATCAAATCT AAAATAAGTA TAATGCATTG TAATTCAGA GATAAATCCT AGACCCTTCT 60
TGGCCTCCTT CTNACATAAT TCTAATCCTA CAGTCTCAGA GATGCTGTTG TATCCTGCCC 120
CCCAACCCCA TGATAGTNAT AGTGGTTTTT GCCTTGAAGG AATTGCTTTG TATTTAGCTT 180
TTCCCCCTCT AGATTTCTAG TTCCTTTTCA GTATTGGATT GGATTTGAGA TTTGATTAA 240
CTAGTACTCA GGTTCAGATG CTCGCCTCTT TGCAATTTTA ACACTCATTG GACAATAAAG 300
TCAGTNGN 308

SEQ ID NO:3917

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04642

SEQUENCE DESCRIPTION:

GATCTAATGC ATCCTATATC CAGTAAGTAG AATTATCTCT TCATCTGGGA CCTGGAAATC 60
CTGAAATAAA AAAGGATAAT GCAATAAACA CAGTTGCAGG AAAGTATGTT AGCTATATAC 120
TATGAAGTAC TCTTAGTTTA CTTATGTTGA ATGGCTTAGC TATTAATACT CAAATTGAGT 180
TAAATGAAA ATTCCTCCTT AAAAAATCAA ACGTAATATG TATTACATTT CATGGTACAT 240
TAGTAGTTCT TTGTATATTG AATAAATACT AAATCACCTA GGTGTCTATG TTCTATCACA 300
TCTAAA 306

SEQ ID NO:3918

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04643

SEQUENCE DESCRIPTION:

GATCAGCTGC AGCAGGNTGG GTCCCTCTGC ATCTGTCCAT CACTGCGACT GATGGCAATG 60
ACTGAGTATA ACACCTTTCT TCATGGTCAA CTCTACCCAG GAACCACGTA GGGAAGGAAA 120
TTCTGGAAAA CAGCTCCCAG CCTTAGCCAA CTTGACATAT CATAATCCAA CAGANCTCAA 180
CCTCTACCAA CTTGGAAATC ATGTACATTT GTCAGGACTG TATTTAATTT CCACATAGAG 240
AGAAAGCAAA ATTATACTTT TGACCAAACCT AATAGANTTA TCCATTAAAC ANACAAAAC 300
GTGAAA 306

SEQ ID NO:3919

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04644

SEQUENCE DESCRIPTION:

GATCCTCCCA GCTCTGTCTC CCAAAGTTCT GGGATTACAG GCATGAGCTA CTNTGCACAA 60
GCTAAGAATA TGTGCTTTTA AATCCCATAA GGAAAAAAT ATTTTGGTA AATAAAATTA 120
AAGCATAAAT ATCATGATTT ACCTGACGTT TACCGTAAGC AACATAAAAG ATATGTGATA 180
CTGAATGACT AAAANGTAGT TTTGGTTAAA GAGAGTTCTA GTTTCATGA GGNCTCTGAC 240
AATGCTGCAT TTTATTTTNC TTTTAAATGT GCACATTGGT ACANGTTTAA CTACTCTACT 300
CCTGTN 306

SEQ ID NO:3920

LENGTH:304

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04645

SEQUENCE DESCRIPTION:

GATCCTGTTA TGAAAAGCCC TAAAAAATAG GGTATAGAGT TTGGGCATAT TTCAGAGGTA 60
ATAAGAAAGC ATTCTGCATT TTTAAAGTAA GGTTTAAAAA TGTTTCTAAT TAGNGATACA 120
GCAAAGTTGG TGTGAGAGGA TAAAGCTGAT ATACATAATC TGAGGAGTTC ATGAAAATTC 180
ATGTAAANCT GTAGTATGAA TTGGCCTAGG NGCAGCAGCT NAGGGCATAG NGACTTTAAG 240
ACTTTTCCAA GAGAGTGNAG GCTGGNGATA AATTGTGACT AAAATATATT TTGTGTTTGN 300
GAAA 304

SEQ ID NO:3921

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04646

SEQUENCE DESCRIPTION:

GATCAAGTAA TTCTTTCCT AGGTTGGGTT TGGGGAGGGG GGAAAAGAGG GGCTTTTCCT 60
AGGAGAACGA TAAGAAATGG AAAGACTCCT TGAAGTGTG CAAGGGAACC TCCTAGCACT 120
GTGAAAGTCA GAATCGCCTC AGCATTTCCT TGACGCACAT TATGCAAATC TNTTAGCAC 180
TATTTTAAGT TTGAAAACCT TAACAATGAA GGGGAAGGGG AAGNTTTCCT CCAACTGANT 240
CATTTGTGCA CGTGTATAGC TCAAAGNGCT TAGACTTCAA ATATATCTGG TGAATGACAA 300
A 301

SEQ ID NO:3922

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04647

SEQUENCE DESCRIPTION:

GATCTGCCTG CCTCAGCCTC CCAAAGTGCT GAGATTAGAG ACGTAAGCCA CCATGCGTGG 60

CCAATAAGAC TGACTTTTAA TTTTCCTTTC TTGTACTGTT CTTGTCTTGT TTTGGTATCA 120
 AGGTTATATT AGCCTCATAA AAGGAGTTAA GAAGTGNTCG CTCTTCTAT TTTCTGAAGG 180
 AGTCTGCTAA GTATGAGAAC TCTCTATTTT ATGAATGATT GATAAACTC TCTTGGAAAC 240
 TGTCTAGACC TTATGGAAAT ATTTCAAGTAA TAGTTACAAA GCTATTCAAG TTGTCTGGTT 300
 N 301

SEQ ID NO:3923

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04648

SEQUENCE DESCRIPTION:

GATCTCAGTT GGATAGTTGT ACCTCAAAAA AGTAGGTGAG AACTGGCTTC CTCATTGTCC 60
 CAGGATGTCA AATACTAATG ACATAAGAGC TCACTTACGT GCCAAAATTC ACTTTTATAC 120
 TAGTTTTTCA GTGCTTTAAT ATTTGTAAC TAAATTTNAA AACTCGTATT TACAAACACT 180
 ACTGTAAC TN CAGTGAACT GAATTGTGCG ATTGANGCTT TTTGCTTATC ATAGTATNTA 240
 TTACACTACT TANTTCAGTA AATATATAAA NGTAGCCTNC AATTGANGTG TNTATTGAN 299

SEQ ID NO:3924

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04649

SEQUENCE DESCRIPTION:

GATCAGAAAG GTGAAATGTT TCGAATTTAA AATGTTTAAA GCATGTTTGG TTTTATTATT 60
 TTTACATAAT TGTTTACCAC TAGTTTTTCC ACTAGCTTTT TATTATATAT GTTTAATTAT 120
 GTAATTGTGA TTTACTAGCT TTTATTATAT AATTCCTTTT AAATAATACT ACTATTCATC 180
 AACTCTTGTG GCATAAGAAT TGCAGTTTTT TCTACCAAAC TTTTACTTCA TCTATGAGTC 240
 GTGTTAGAAA TAGTCATTGA AAAAATATAC AGTAAATAT CTAGCAAAT AAA 293

SEQ ID NO:3925

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04650

SEQUENCE DESCRIPTION:

GATCTGGTGA AGGCCTNCTG GCAGCATCTT CTCAGTAAGA CCTCATGTGG CAGAAGGAAA 60
 GGGAGCTATC TGGAATCTCC CTTATAAGGG CCCNNNNGCC ATTCATAAGG GCTGCACCCT 120
 CATGACCTAA TCACCTTCCA AAGGCGTCAC CTCCTGGTAC TGTCACCTTG GGC GTTACGA 180
 TTTTCATCATA TGAATTTTGG GACGGCATAT TCAGTCCACA CCAGGAAGTT CTTGCACNTC 240
 ATAGTCGAAA GTCAGTTTTG TGGCTATAAA AATCTTGGTT CCATTTTCCG CTN 293

SEQ ID NO:3926

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04651

SEQUENCE DESCRIPTION:

GATCCACCCG TCGTCGCCTC CCAAAGTGCT GGAATTACAG GCGTGACATG CATGCCCGGC 60
CAACATATAA TTATTATACA ACCCAGCCAC TGCACTCTTG GGCATTATTT CTAGAGAAAC 120
AAAACTTAT CCCCACTCAA AAGCATGTAC GTGAATGTTC TTAGCAGTTT ATTTTATAAT 180
GGTCAATATC TGGAAACAAT CCAAATGTCC TTCCATGAGT TAATGGTTAA AATAACTGTG 240
GTGCACCCAT ACCATGGAAT ACTGTTCAGC AATAAAATGG TATGAAATGA AA 292

SEQ ID NO:3927

LENGTH:291

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04652

SEQUENCE DESCRIPTION:

GATCCTATCT AAAAAATATGT AGTTATTAAG CATTCTGTGG ATATTTGTNA ATAAGGTAGT 60
TNCTATGGTC CGAATATCTG GGCCTGCCCC CCCAAATNAT GCTGAAACCT AATCACCAGT 120
GTGATGGTAA TAGGAGGTGG GACTGAGCTC TGATGAATGA GATTAGTGCC CTTATAAATT 180
ATGACCAAAA GAGCTCTTCA CTCCTCCTAC CATTTGAGGA TACAGTGAGA AGCCTTCATC 240
TATGAACCAC AAAGTAGCCC TCATCAGACA CTGAATCAGC CAGTGCCTTG N 291

SEQ ID NO:3928

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04653

SEQUENCE DESCRIPTION:

GATCTCACAG AAGTTATTCA ATCTCTAGGT TGCTTTAGCA TCTACTTGTG TAGTGAGAAG 60
AGTTATTTAC TTATATTGTG CATGAGGCCG TTTAGATATG TTAAATGCAA AACAGAACTC 120
TTGCTAGCTA AACACAGTAG AACTTGAATT TTTTTTTTNA GAGGTTATTT AATANCAAAA 180
TCAGGTTATT TGTGACTTGG TTGAAGTAAA CGGTGTCTCA GATAAANTAA TTNGTTAAAA 240
GAGTTGCCCA NTTTATGTCT TATANCTTNA ANCAANTANN TANTAATAAN 290

SEQ ID NO:3929

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04654

SEQUENCE DESCRIPTION:

GATCTGGGAT GTGAGTGTAT CAAATCTTAT CAAATCCATT GACAAATCAG TGGTGCTATA 60
CTGGAAATGG CTACTCCTTT GGATGAAGGA CCTCATTTCC CAGTTGCTTG GAACAAANGA 120
GAATTTACAT NNNNCTGTAA GAAGGGAGAG ACGGCAGTTG TTGGTAGACA CACAGNNAAG 180
GGTGCCCAAG AATAATTCTG TCTGGATTAA AGGTCACAGG GAAGTGACGG NGCCATTTCT 240
GTACCAAGAG GTGAATATAA TTTGCATGTT NGNGTGCAGT AATTAAA 287

SEQ ID NO:3930

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04655

SEQUENCE DESCRIPTION:

GATCCCAAGA TGA CTGGGGT GGGAGGTCTT GCTAGAATGG GAAGGGTCAT AGAAAGGGCC 60
TTGACATCAG TTCCTTTGTG TGTACTCACT GAAGCCTGCN TTGGTCCAGA GCGGAGGCTG 120
TGTGCCTGGG GGAGTTTTCC TCTATACATC TCTCCCAAC CCTAGGTTCC CTGTTCTTCC 180
TCCAGCTGCA CCAGAGCAAC CTCTCACTCC CCATGCCACG TTCCACAGTT GCCACCACCT 240
CTGTGGCATT GAAATGAGCA CCTCCATTAA AGTCTGAATC AGTGCAGAAA 290

SEQ ID NO:3931

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04656

SEQUENCE DESCRIPTION:

GATCCTGAAG GGAAGGGGCA GGGATTTCTC CTCTTCTTG GTCCTGGCTC CCAAGGGCTT 60
CTGTCTTCAT CTCTGCATGA GCTCTCCTTC CCAGAGACCA ACTCTTTTNN ATTTNATTTN 120
ATTTNATTTT TNAATTTATG TCTGGAGCCT GGCTACTCTG CATTTGGGNT TGGGGATGCT 180
GGGTGGGTGT GTGGTCCATG TTCAGCGTTC TAGCAACACG TGTGTGTGTG TGTGTGTAAA 240
GGCTATGCAG CAAAATACC ATCTGGCCAG ACGGGCCAC CCACAAA 287

SEQ ID NO:3932

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04657

SEQUENCE DESCRIPTION:

GATCACCTGT TCCTACAGTG ACAACTGGAC CTGGCCCGAA CCCCTGGCAT CTGGCAACAT 60
TATTACCTGT CGAAACAGAA GTAGAGATT GAAATAGAGG ATGCCAGTTC CCATTTCTC 120
CTGCTGTCTG GAAGGAAGTC TGGCTTTCCA GCCCAACTCT AAGCTCATCT TTACATACAA 180
AATAAGGGTA TGTTTACATG GAAAGCAAAA ATAGAACCAT GGATTTACAG AAGGTTCCAT 240
AGCAGCAAAT ANCAGTGCTT ATGAAATAAA CATTTTAAAT ATTAAA 286

SEQ ID NO:3933

LENGTH:283

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04658

SEQUENCE DESCRIPTION:

GATCTAATTG TGAAATCGTT CACCTTGTTA AACATCTAAG TAAGTCTGTA GTCGCTCTGC 60
AAACAGCCAT TATATTTATT TACTCTAGAA GAACTGTAG AGTAGTAATT CGTGCTAATG 120
AGAAAAACAA AATACCATGT TCAAAACAGA TGTATTTGAA AACTTAATGA CATGGTTCCA 180

AAACTAGAG CATGTATGTA TGCTGTGCAT CATCTCAGCA GACCTAAAAT ATCCCCAAGT 240
TGTCCCTTTA CAGCCATCAA TATATTNAC ACTCTGCGGC AAA 283

SEQ ID NO:3934

LENGTH:283

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04659

SEQUENCE DESCRIPTION:

GATCTGAGTC CTAGGNNCGC CCTCATTAC TAGCAGTAAG AATTTAAGTG GTGCATGGCA 60
CATAGCACTG TACTAGATTC TGCAGGGGCA CAAACATAGA GCCAAACACT CTCCTCTTG 120
GAGAATTTCA GACCCAGAAA AGGCCACGCA GTTCTAACTT TTGTCATCGG TTCCTTTTGC 180
TAAAAGGCAA AGGGTATGTT CCTTGCCTAT TGTCCAACAT ACCCCTTCCA AGATTGTGAG 240
AAGATGGGTA GCTGGGCATC ATTAAATATT GAATCAATTG AAA 283

SEQ ID NO:3935

LENGTH:281

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04660

SEQUENCE DESCRIPTION:

GATCCACAGC TTGCAGGAGA AAGTCAGTGG CCCCAGACAC ACGTAACAGG GTGAGCACTG 60
AAATAAGAGC ACGCTGGGGC GTCCACACCA AGGGACTACG CCCCAGTCTG CCCACCTATC 120
TTTCTCCAT CATTAACCCA GCGCTCTTTC TCCCTGGACT TCCAAGTACC AATGACCTTG 180
GGGCTTCTTT GCAGTTTAAA GGGAAAATGC TCTACAAANT AATTTCACTN TCAAAACANNT 240
CAGCAGAAGA ATAAAATNTT TTTTCTGGNA TATCTAGTAA A 281

SEQ ID NO:3936

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04661

SEQUENCE DESCRIPTION:

GATCCAATCA CATGGCAAAT GCCTCCTTTC ACAATAGAGC ATGGTGCTGT TTCCTCACTT 60
GANCTGAAAC TTCATAGAAG ACCAGGTGAG ACCACAGAAT ACTAGATGNN AATGTTTCATG 120
TAGGTAAGCT TTATATTTCC TTCCAAGCTC CATTGCTACA AAGGTGTAAA TAAAATACAT 180
TTTTATGAGT TGAAGTAACT TCATGGTAGA AAATAATAAC TCTGCCTTCA AAAGCAAATA 240
ATGGTTTCTT TGTTAACCAA TAAAGCATAA GANAATGAAA 280

SEQ ID NO:3937

LENGTH:278

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04662

SEQUENCE DESCRIPTION:

GATCTTTAAA TTTTGTCTCT TAGTTAAGTT CTGTATTTAG TGAATTAATT GCATCCTAAA 60
 AAGTCAAAC TGAAGACAC ATTTTAAATG GCAAATCTAT TTTTACATG TTTGTGAAGT 120
 TTTTATTTT TAGTAAACAG ACCATCAGAA GAGAACAATG GTACAGAGCA GGGGTCAGCA 180
 GATGGATTTT GTANNGCATC AACTTGTAAG TATTTTCAAG TTTATTAGCT GTATGGCTCT 240
 GGTTCCTGTT CCCTGTTCCA AATGTAAAG TCTACTGN 278

SEQ ID NO:3938

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04663

SEQUENCE DESCRIPTION:

GATCGACATT TAAAAAATGA GGTGAAAGAA AGCTATAGTG GCATAGAAAA AGTATAAAGC 60
 TCAGTTAGTT TTTTATTAT TATTATTATT AAAAGTTAAT TCAGGACTGA TGTGACCTAC 120
 CAGATTTTCT AACATGTGTT AATAGTATAT ATGCCACTGA AAAGTTAGGT CCTGTATCAT 180
 ACTTTTNCCT TTAAGACTTT TTAAGAAATA TTAAGTAAAC ATGTGGCTTG CTCAGTGTCT 240
 AATTGCAAGT TTTCAATCTT GGACTTTGAA AACAGGATTA AACGTTAGTA TTCGTGTGAA 300
 A 301

SEQ ID NO:3939

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04664

SEQUENCE DESCRIPTION:

GATCTCCCTT TTACAGATAT CAGAAAGCAT GAAAAAATA GAATTGGATT TAATGCTTTG 60
 CAGATATTCT GTTTTTTTTC CCAATTATTT GATTTACCT ATATACATAT TCTTTNNTCT 120
 TTTTCTAGC TTTAGAAGCA AACCAACAAA AGCAGTTTGG ACTTTAGTAA CTTTTTTTTA 180
 CAGCAGCATT TAGAACAGTT TGCATGTTCT GAGGAATATT ATATGTGTGT TGGGGGGAAA 240
 GGAATTCACA CTGAATAAAT TTTAGAAATA ATTAAA 276

SEQ ID NO:3940

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04665

SEQUENCE DESCRIPTION:

GATCTTACTG CAAAGGAAAC TGACAGAAGA AAAAGAAAGT GCTTTTGAAT TTNTTTCCTC 60
 TGCCTGACTA GACAATGATG TTAATAAATG CTTCAAAGCT GAAGAATCTA AATGTCGTCT 120
 TTGACTCAAG TACCAATAA TAATAATGCT ATACTTAAAT TACTTGTGAA AAACAACACA 180
 TTTTAAAGAT TACGTGCTTC TTGGTACAGG TTTGTGAATG ACAGTTTATC GTCATGCTGT 240
 TAGTGTGCAT TCTAAATAAA TATATATTCA AATGAAA 277

SEQ ID NO:3941

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04666

SEQUENCE DESCRIPTION:

GATCCTAAGC CATAGACAGG CTAATTGCCC ACCACTCCCA GGAATATTGA AATAGCTACA 60
TGACCATAAT GTGTTTAAAA TGTGGTATGC TCTTGAGATA TTTAAAGTTT TGGCAGTAAA 120
ATACTCTGTT TTTAAGTATG AATGTATTTT ATTCATATTT CCTCTCACA AGGAAAATGA 180
CTTCAGTATA GATTTGTTTT TATTAAAATG CATTTTTTAT TCTTAAGTGG TAGGAAGCAA 240
CATCCAAAAN TGCTTAATAA AATGCTTTTA AGCTGCAAA 279

SEQ ID NO:3942

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04667

SEQUENCE DESCRIPTION:

GATCAACTGG CTTTCTCTA TTATGACTTT AGATGAATCG TTTAATAGA TTTGCTAATG 60
TTAAGACATC TCTGCATTTT TACAAGAATC TGATGTAGTC ATAGTATACT ATTCTTTTAA 120
TATACATCTC CTTTCAATGT TAACAGTGGT TATTTATGAT TGGTTGGTCC ATAGTAGATT 180
TTTATTTTGT GTTCTTATC TGNACTTTCT GATTTTCCTA CAAAGATNNG NGNNNTACTT 240
GTATAATAAA AATAAGAGCT TAAATNGTG AAA 273

SEQ ID NO:3943

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04668

SEQUENCE DESCRIPTION:

GATCGCGTCC AGATGGAAAA CGGAAGCAGA GGCTTCTAAT CGTCGCATTT ACTGGCTCCA 60
GTGCAACACA TCCATCTGAA AACACTCGGA AGTCTGGTGC TTGGAGAGGG TGCCATTGTC 120
TCTTGACAT AAGGTCATGA CGTGTCTATG TCAAAAGTTC TTATATATTT CTTTATAAG 180
CTGAAAGAAG GTCTATTTTT ATGTTTTTAG GTCTATGAAT GGAACGTTGT AAATGCTTGT 240
CAAACAATAA AAATAACGAA AAGTGAAA 268

SEQ ID NO:3944

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04669

SEQUENCE DESCRIPTION:

GATCTNGTGC CTGAAATAG CCTGAGGTGG CTCAGGAAGC GGAGAAAGGG TGCCAGACCA 60
TTCTCTGGCG GGGACCAGGG CCCAAGGCC CAGGGCTGGA AGNAGACCA GGGGCAGCCG 120
CCCTGGAGGG ACATCAGTGC TTCTCTTCC ACCCAATTCC CCCACGCGGT TCCATGTTTT 180
CCCACCAGCC TGTTGGCGAA GTTGCTGCTC CGGCATTGAG TACCTNNTNN NNCCAGAGAA 240
ATANNNGAG TTTCTATTTT ATGTAAA 268

SEQ ID NO:3945

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04670

SEQUENCE DESCRIPTION:

GATCAGATGG TTTAAGGCTA CAACACGAGG CCAATATCTG TATGTNAAGG AGACAGAAAC 60
ATCAATGTTT GGAGTATATA TTGACCTTCA TTCTTACTTT CTCCTTATTC TCTTATGTAA 120
CTGTTAATTT TTCCCTTCCT TGGCTCTATG TATTTAATTA TAATAAGCTT TACCTACAAG 180
CAAAACAAAC CAAACATGAA CAATGAAAAC TACTTTTGGT CATGTAGCAG AACAGCAGT 240
CAATAAAGGA GAGAATGAAA CTAGAAA 267

SEQ ID NO:3946

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04671

SEQUENCE DESCRIPTION:

GATCCTGTGA AAGCTGATGC CCATGTGCCC TGAGAGCTGC CTCTCAATCC CTGTCCCAAG 60
CCACAGCTAT GGCCTTAATG TCACCAGTGT TCTCACCTC TAGGCCCTGT GCCTGGAGGT 120
GCCTCCACAG CCGACCAGCA GCCACCCCGC CTGCTTCATC CACATCAGGA GGGTCCGGTG 180
AGGCTGCAGC AGTGGTTAAG GAGTAACACC TTCTGTATT AAGGAATTTT AACTAAATA 240
AAATGTATGT TGGAGATACT GTTAAA 266

SEQ ID NO:3947

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04672

SEQUENCE DESCRIPTION:

GATCCCTAGG TCTTGGGAGC TCTTGGAGGT GTCTGTATCA GTGGATTTCC CATCCCCTGT 60
GGGAAATTAG TAGGCTCATT TACTGTTTTA GGTCTAGCCT ATGTGGATTT TNNCCTAACA 120
TACCTAAGCA AACCAGTGT CAGGATGGTA ATTCTNATTC TTTCGTNCAG TTAAGTTTTT 180
CCCTTCANCT GGGCACTGAA GGGNTATGTG AAACAATGTT NAACATTTTT GGTAGTCTTC 240
AACCAGGGGT TNTTTCGGTT TAACN 265

SEQ ID NO:3948

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04673

SEQUENCE DESCRIPTION:

GATCTAGNAA ATGCATATAT TTAGCGGGTA TTTGAAAGAT AGAAGCATTA TTTATAACTG 60
AAGAGTATAA CACTTATCTN CTTAAGTAAA TGCTCTCATA ACTTGTATAC ATTTTNCAG 120

GTACAAATTC AAAAGTATGT AAGCATTGTA TAATGTGACA ATTGTATAAT TTATGTAATC 180
TGATGCATGA NTCAGAATTT TTATATAATA TATGATTATN GACTTATAGT TGATTAANGT 240
GTTTAANCTT AAAANANAAN ANNNN 265

SEQ ID NO:3949

LENGTH:263

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04674

SEQUENCE DESCRIPTION:

GATCTCTAAA CTAGCTCTTT TGTTAGTATC GTCTCACAAA CTGATTATTT TCCTCTTTCT 60
TTGGTAAGGT CAATAACTGG GAGATGGACA AACTAGAGAT GGAAGATGCA GTCACATTTT 120
TGAAGACTAA AATCTATTCA GTAGAAGCTC TTCCTGTTGC TGCTGTAAAT GTGCAAAGCA 180
CACAATAAAG TGA AAATCAA CCTTTTCATA TTAGGAGACA TGCATTTGTA AAAATTAATA 240
AAGATGACAA GTCAGTTNTC AAA 263

SEQ ID NO:3950

LENGTH:261

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04675

SEQUENCE DESCRIPTION:

GATCCACACA CTACAGGAAA CAGTTGGCTT TGGAAATCCA TCTTTCTGAT ACCCCTCCAG 60
CTGAACAATT TTCTGCATGG GACTCTGAGT TCCTTTCCTT CCCAGAGAGT TTTACCGTAT 120
GAAGCCTGGA GCTGGAGAAC GAAAGAATCT TCACTATAAA CAGAGACCCA TTCATTTATT 180
TCCATTGGCT GTGTTACTGG ATGTTTTACT GGTGACGAG AACTGGGTC ACAATAAAAA 240
AATGGAGATA TGA AAATCAA A 261

SEQ ID NO:3951

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04676

SEQUENCE DESCRIPTION:

GATCTGTTTG TAATACAAGG TATTTGGNCT TGTCTTTAAC TGTATAGTGA TTTGTGGGCA 60
GGCTGCAGGA GCCAGGATAA AGAATGCATG TTTGAAATCT NCTCTATACA AATGCATCCA 120
CACTCTCCNG CAAAGGGATG AGTTTCTTAG CCGTTTTTAC TTGATACAAA TGCTATTGTT 180
TCCTTTGGAN GGNGTGAAAA ANTGNANGCT CCACCTGCTC CGTGAGTAGC ATTGCTCTCA 240
ACTGGTGTTC CCAGCCGTTT ACATGTCTAC CCATTCTCTC CCTTANGGTT TTCTTAGGGN 300
GCNGGNGGNT GNNTN 315

SEQ ID NO:3952

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04677

SEQUENCE DESCRIPTION:

GATCTAAACT TGATATGTTA AATTTAAATT TAATTTCCCC AAGTGTGAGT ACTATATGTN 60
ATTGTAGATA ATTTGCAAAC TACAAAAAAT AAAAATAATT GGCTGGGCGT GGTGGCTCAT 120
GCCTGTAATC CCGGCGCTTT GGGAGGCCGA GGTNGGTGGA CCACCTGGGG TCAGGAGTTC 180
AGGACCGGCC TGGCCAACAT GGTGAAACCC GTCTCTGCTA AAGGTATAGA AGCTNGCCGG 240
GTGTGGTGGT GGGCACCN 258

SEQ ID NO:3953

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04678

SEQUENCE DESCRIPTION:

GATCCTCACT CAACGAAAAC TCGNTTGGA ACTGTTCCGN CTGGCAGTCC TTTTTGTTG 60
TTTTCCATCT CATTTCCCTT CCATCTGAAA GTGGCATTCA GCTGACTNGC TCATTAGAC 120
NGTTCACGGA GTCTGAATCT GCCAACGTGG TGTGGAGGC TCCACCTTGA AAAGGGCCAC 180
AGTCAGGGCA ACTTTCCCA TACAGGAAAA CTTGAAAATT ACATCAACAG TCTACGTCAC 240
AGCCAAATTA TATTTCCN 258

SEQ ID NO:3954

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04679

SEQUENCE DESCRIPTION:

GATCCAGTGG CTGCAGCTTC AATCCCAGTG CTGNANTCAC ACATCCATTC TGCCCTGGGG 60
GACCCTGGAG CCTACTTGTC CGCTTTGCAT TTCATTGATT GACGNCTCCC TTCAACAAGC 120
ATTTACTGNG CGCCTACTAT GTACTAATGC TAGANGTTAG ATGTACAAAG AAGACAGTTT 180
TCATCCTCTA GGNACTCATA GGCTAATGGT GAGACACACA GACANACATC ATTATATTAN 240
AATANGCTAA GNGAAAA 257

SEQ ID NO:3955

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04680

SEQUENCE DESCRIPTION:

GATCTACAAG GCCACACAGA TAATTNCAAA TACATCTCAT TTCCTTCTGA TTCAGGCCTC 60
GGNAGACCCC AAGGGGAAGG AGTTCTCATG GGNCACTATA ATCNATGAAG CTGAAGTTGN 120
AATATAGANG GCAGATTTAA AGTTACCAT TTTTTTTAAA CACCAGCTAT GGTCTTTTCA 180
AAATTGTACA AGCTGTGAGT ATCACCTGCA CATGAGCAAT TTAGTCTNNN GGNGGNGTGA 240
GAAGTTTAGG TCTTTNN 257

SEQ ID NO:3956

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04681

SEQUENCE DESCRIPTION:

GATCTGCCCC CCTCGGCCTC CCAAAGTGCT GGGATTACAG GCGTGAGCAT GAGTGCCCAG 60
GCAGAGAAGT CCTACACCAC GTGTCAAAC CGGAACACAA AGGGNCACTG TCTTATTGCT 120
TGGTACAGTA CTCCTGTTTG TTGAGAGCCC ATTTACTAGA GCAGCTCTGT TTGTGCTTAA 180
TGAAAGCTCT TTTCTGAGAG GCAACAGAGT GTGTTCTATC ATAAATGAAG CGCTCTTCAA 240
GAACTTCCTG AGCAAA 256

SEQ ID NO:3957

LENGTH:254

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04682

SEQUENCE DESCRIPTION:

GATCCACCGT CGGATTCCGT CTGCAGAGGA GGACGTAGGG GGCCGTCACA CCCACCAGGC 60
CTCCCTGCTG TGCTTTAACA CAGGCAGAAG AGGTCATGG CAATATAATA GTCAATGAAC 120
TTTCAGTTTA AATGTGTAC ATTTTAAAT TGTAAGATTT TTAAGTATA TTGATGCATA 180
GTGTGATTCA ATAAATTGCT TGAATTTAA AACTATTTA ATATTCAAAA TAAATATAGT 240
TATATATTTA TAAA 254

SEQ ID NO:3958

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04683

SEQUENCE DESCRIPTION:

GATCTGTTTT AAAGTTGGGG GGTGGGAAAT TTAGCTGACT AGGGACAAAC ATGTAAACCT 60
ATTTTCCTAT GAAAAAATT TAAATGTCC CACTTGAATA ACGTAATTCT TCATAGTTTT 120
TTTAATCTAT GGATAAATGG AAACCTAATT ATTTGTAATG AATTATTTAG ACAGTTCTAA 180
GCCCTGTCTT CTGGGAGTTA TCANTNTTAA AGAGANCTTT TGTGCAATTT CAAATGAAGT 240
TTTTATAAGT AN 252

SEQ ID NO:3959

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04684

SEQUENCE DESCRIPTION:

GATCCGGAGT CTTTGAGGCC ATTNNTGAAC TACTAATTCA ACTAATCCTG AACCACCATA 60
TTTTCATATT CATCCATGAA GTGTAAAGTG TTCTTATGAT TTAAACCACT TAGCATTGGT 120
TTTTATATTT CTTGCAGCCA AAATCTTCCT AACAGTAAAA TAAAGTTTCA AGTTTCATAA 180
GTGCCAATGA TTTTAAATG TTAATAAATT TGTACTAAAT AAAAATGGCA ACAGGAGCAG 240

GTAAACCTAA A

251

SEQ ID NO:3960

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04685

SEQUENCE DESCRIPTION:

GATCTTCTAA CTTATAAATG TCAAATATAT TTTTGTATTA GATTGTGCCT ATNATGAGAG 60
AAATCTTTAA TGTATATTTN ATGTATGCTG AACACATTTT TATAATTTGN CACACTTGGA 120
GGCATGGTCT AGTAATAATA ATGTAATATG TACCTTGCTG GTTANTATAA CTAAGATTTT 180
GCCTTTATTG GGTTAGGTAT CTNTNTTTA TTNTNGCACC NGNTAGCTGN CTTCTACTGA 240
GTAAAGANTT N 251

SEQ ID NO:3961

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04686

SEQUENCE DESCRIPTION:

GATCCAACCTT CAAAGTAAAA GTTGGAAAGG GCAAGAGTCT TTAAAGCGGA ACTTCAATTC 60
TNTTNCAATG GTTACTTATA TATAATGAAT ATAAATAGAC AAATAGGACT TGGAAAATGT 120
GGTATATTCT AAGTCAAGAT GCTATGAAGT TGTATAGTT TAAGGGNCAT TCTTAAGAAG 180
GAATTACTTA AGTNCATTAC TCTNCTCATT TCAAGGACAT GAAAAAGTAA AGGATGGTCT 240
GGCACTATTT N 251

SEQ ID NO:3962

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04687

SEQUENCE DESCRIPTION:

GATCCTGGAG ACGCCATTTT CGAGATTGTT CTGCATATTC ATTTGCACAT TGTGTCTGG 60
GTTGGACATG CGTGTGGGCT TCAGTGTGAG GCTTTTAATA TGTATATCCT GTTATCAATA 120
AAACAATTAT CCAAGTGGTT GAATCCTGTG AGACTTGGCA AGTGTGTGCA AATNAAGTAT 180
ACTTGACTTT TCAACCTCTT CTTTCAATGT NGCNNTTATA TGANATAAAG TAATCCATTT 240
ANCAGTTAAA 250

SEQ ID NO:3963

LENGTH:245

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04688

SEQUENCE DESCRIPTION:

GATCGACATG AGATACAGAC GAGAGATTAT GTCTCTTATG GCTTTATCAT CAATTAACT 60

01276

TAGCAAAGTC TGTTAAATTT ATTTTCAGAGT CTCCCAGCTG TGAAAAGTAG AGTTCCACTT 120
ATGTCATCCA TATCTGCACA GTAATCTTTT TTTTAATCCT AAACCTTCTT AACAGGTTTC 180
TNCTCCTNAT TCTAGACAAT AATGCTATGT GTTTTCCTTG AATACCATGA TTTTAAACTN 240
TTAAA 245

SEQ ID NO:3964

LENGTH:245

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04689

SEQUENCE DESCRIPTION:

GATCGGTCAT GCTGGGGCCA AAAACATGGC AAGAAACGTC CCACTGTCAA CCTCCGGGGC 60
AAGCGTGTGC ACCTGCAGCT CAGGGCCAGC CCACCACACT GCCTTAGTGA CACTGCAGCC 120
GGGGGAGCCA CAGGCCGCCA GCAGGCTGAG GAACAATGCC GTGTGACCTT TCCNNCNNNN 180
AAAAAACAAA AACTGCAATT TTTATTCAAA TAAAAAAGG GTAAAAATAA AAGTTAATAA 240
GGA 245

SEQ ID NO:3965

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04690

SEQUENCE DESCRIPTION:

GATCATGGAA AGTTTCAGTG AAAACCATCA TGCTGTCTTC CAGAACACAG TTCTCCTCTG 60
AGGAGGATGA ATGAAGGTTG GGTTCAGTC ATCATGCCTG CCCTTTTTTT CTTGTATTG 120
TTCTTAAGC ATCTCAGAGT CCTCTCATGG AATTGGTTT CTATTCCCC TCCCAATCTC 180
CACCTCACTC CATATCATAA GACATGTCTG CATTCTGGAA TATTAAACGT GGACATGGCT 240
CA 244

SEQ ID NO:3966

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04691

SEQUENCE DESCRIPTION:

GATCATGCTT TTCCCTACTA AACTTCTGTA ACTGCATGTA TGATACATTA TTGCAGAGGT 60
AAGAGATAGT TTAATGGATT TTAAAAACA AATTACTATA ATTNATCTGA TGTTCTCTAG 120
TTGCATTTTG CTGAAATGTA GTGCTGTTCT AAATTCTGTA AATTGATTGC TGTTGAATTA 180
TCTTTCTGTT GAGAAGAGTC TATTCATGCA TCCTGACCTT AATAAATACT ATGTTTCAGTT 240
TAA 244

SEQ ID NO:3967

LENGTH:242

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04692

SEQUENCE DESCRIPTION:

GATCCAAGCC CTTGTCAGA TTTGGTGCCT GATAAGACAG GGGTTTCTCT TTTTGTGACC 60
TTTATTATTA TTATTTTGT AACTGTTGTA ACCAGTTAGC TGTTGTGTTT TAAGATAGAA 120
AGGAACAAGA CTAAAATTGT AAATACTTTG TAAACATCAG CATTGTACT TGAATAGTAG 180
GATTTTAAAG GGCATTGATA GCATACCAAA CAAAAGGCAA AATAAAGTGA CCTTTTATA 240
AA 242

SEQ ID NO:3968

LENGTH:241

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04693

SEQUENCE DESCRIPTION:

GATCTTCCTC CCATGAAAGA AAAANCAAGA ACCAGAGGCG TAGACTNACT NAAGACACAA 60
CTCCTGGCTT TCTNAAGCTA TGGACTTGGA TTGGATTGCT GGGGGTTTTT AGAGAAAGGT 120
GACAAATTTT AGTACCTCTG GCATGCTGTC CCAGGAAACT AGGGCTCCCA CTAATTATG 180
AGGTTTTTAA ACACATTGAA AATGACATGA CACCTAAAT AAATTGGAT TTGCTCATAA 240
A 241

SEQ ID NO:3969

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04694

SEQUENCE DESCRIPTION:

GATCAAGGGT AAGAATAAGT ATCCACCTCT TTCCTTTTAA AAATTTTCCC TCAGAGTCCC 60
TATGTTGCAT ATTTNATTCT GTTCAGAATC TAACCTTTCC CTAAGGCTTA TCTTTCTAAC 120
AGATACTAAT TATGAATGGG CATCAACAAC TCTAATTAAA CCATTCTTTA AAACCTCTCT 180
GGGTGTTTTT ACAAAGAAA TTCTCCCATG TTATGATGTG TGTGGTTGCT AAAAAGTAAA 240

SEQ ID NO:3970

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04695

SEQUENCE DESCRIPTION:

GATCCAGACT GGCCAGATTT GAACTCCAGC ACTATTCCTT GATACCTCTG AAACCTGGGA 60
CAAGTAACCT AGTCACTATG TATGAAAAGA GATAATAATA CTAGTACCTT CCTCATACTA 120
CAAGACTACA AGATGTGGTC AAGACCAGAA ATATATAAGC ACTGTAAAAA CAATGTAAAA 180
CCAAATGNAA ATTCTTCATT TGTATCTNCC AAAAAATAAA AAATAGCTAT TTGGGAAA 238

SEQ ID NO:3971

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04696

SEQUENCE DESCRIPTION:

GATCAACCAG AAAAAAAAAA TATNATGAAA TGGATACACA CAGTGGACAC CTGTGAAGTT 60
ATCTTAGCTC CCCCAAACT GAGANGTACA AATTAGTCTC CAAACCTAAT TACCAGTTTA 120
CAGGAAACAT NGGGAATAAA AGANCAANTT AACAACACAA AGAAGCAAAC ANCCAANTGC 180
ACAGTTTGGG AAATTCTGCA GAGGTAATGG CCTAGTTTTT TANCCAGTAC ATGTCAAA 238

SEQ ID NO:3972

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04697

SEQUENCE DESCRIPTION:

GATCATAAAT GACAGGTGTG TGGAGGTCAT TGCAAAGGAA GGACAAAACC TGAAAGAGCT 60
ATATTNGGTG TCCTGTAAAA TCACAGATTA TGGTAGGTAA TGANCCATTT NCCTAATCCT 120
TTCTAAGANT AAAANGTTAC AAAATCATTG AAAGTNCTTA AAAGGAAATC AAGANCTATA 180
TCATAGAGAC TGTCTATCGT CACTTATGCT CATNGTGACC NTACCAAANA NTAAAAAN 237

SEQ ID NO:3973

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04698

SEQUENCE DESCRIPTION:

GATCGTAGAA GCCAAATGAA ATGTGACATA TCTACTGACT GATGACAAGG GAATTCATT 60
AGGAAGAAGG TAAAGAAACA TCGTTGAGTA GCCTACCTTG ATTTCTGTCA AGTTCATAAC 120
CAGCTTCATN CTTTAAAGG CTTCAGGTTT GAAATTAAGT CAACTGCATG CAGCTTTGCT 180
GATAAATGAA TAATTCTCTT TGATGCCATT TATGAGAAAA GACTTCAATA TCTGTN 236

SEQ ID NO:3974

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04699

SEQUENCE DESCRIPTION:

GATCTTCCAG TTTAGGAGCA ATTTGGTGAA AGGAGTCGGG TGACCAGAGC TGAATAACC 60
GTCTGCATGG CTGCACTCTG GTANCAGAGT GGNGACAGAN GTAAGGATAG TGTGGAGGGC 120
ACAGTTGCAA GTTGAGTCTT TCCATGAGAC AATGTGCCAA AGTTAAAAAA AAN 173

SEQ ID NO:3975

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04700

SEQUENCE DESCRIPTION:

GATCCCTAAA TAAGTAGTTA TTCTGTTTTT CCTGATTTTN AACTTTTACT AATAGAATGA 60
GAGTAAATAT TTTTGGGTAT GTGGCTTCTT TTGTTCAACA TTGTTTAAAG ATTCATCCGT 120
GTTGCTTGTG TAGCTGTAAT TTGTTTTAAT CTTTATAGTA CATTCAAGTT TGTNAATGCT 180
TATTGTAGGA CTGTACCATA ATACAGGCAG CATGCTGCTG ATAAACACTG GAAA 234

SEQ ID NO:3976

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04701

SEQUENCE DESCRIPTION:

GATCCTCCTG CCTCGGTCTC CCAAAGTNCT GGGATTGCAG GTCTTGGTCT TGATNCCAAG 60
TTTGGGAAAG NAGCTAAGAA GACATCCCAC TAGGAAGAGA GAGACTACCT CCACATCAA 120
AATATTTAAG TNATTATCTC AAACAGTGAC ATCTCTTGGG AAAATGGACT TAATAGGAAT 180
ATGGGACTGA GTTCCAGTCT TTTTNAATAA AATAAAATCA AGCAANATCA TAAA 234

SEQ ID NO:3977

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04702

SEQUENCE DESCRIPTION:

GATCAACCCC GTGAAGGTGG CCAACCTGGT GAAGGCGTAC GTGGACAAGT ACAGGCACAT 60
ANCNCAGGCA CANGAAACCA GAGGCCGGGG AGGAGCCGCC CACGCAGGGG GCCGAGGGCT 120
GAGGCCAGGC AATCACGGGC TATGCCNGGG AGCTGTCGGG AGTGGCGGGA ATCGGGGCCA 180
TGCCCCGGGA GCTGTCGGGA GTNGCGGGAA TNGGGGCCAT GCCCGGNGGA GCTN 234

SEQ ID NO:3978

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04703

SEQUENCE DESCRIPTION:

GATCATCGCA TTGAAATGGT TTTGGGAAGT ATGGAAAATT AAATGGATTT TTGAGACACT 60
AGTTTATTGG CTATGCAAGT GACAGTTTGG AAAAAGGCTG AATCTTATTG TTGGAGCCTA 120
ATGTAAATGC ATATATAAAT TCTGACTGTA TTTCAGTCAG TGTTTCTTG GAAAAATTCC 180
CAGATTGGAA GCAGAAAGTA CAGACCAAAT AAAGATTATT CACCCACCAA A 231

SEQ ID NO:3979

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04704

SEQUENCE DESCRIPTION:

GATCGCTCTC ACTGGCCTGC TGCAGATNAG CCAGGGGGAG CCTAGGCCCA GCTCCTCCGC 60
GGTTGGCCCC CCAGACCATA CCTCTGACCC ACCCAGCCCC CNNTGGTAGC CCCAGCAGTT 120
CTCAGGGTGC TGACCTCTCT CTCCCACAGA CCCAGACAC CCATTGTCCA TAGCCTTCTN 180
AGGGCAGAGT GGGCTGGTTG TGTGACAAT AAAACAGTGT TGGTTTGCAA A 231

SEQ ID NO:3980

LENGTH:242

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04705

SEQUENCE DESCRIPTION:

GATCAAGTCT TGTCAGTTTC TGCCCTCTTT CCCCATGTTC CCTGGGAAGA CGGGTGGTGG 60
CAGAGTGAGA AGGCCACTGG TTCTGTGCCG CAGCACGCAA AATTTAGAAT TCTACAGACT 120
AGCTCTATAC GTAGTGAGGA CCCAGATTTA GAGAAACTGA CCAATATTTA TCTCCGCATT 180
TGTGTGTGTG TCCAACCTCTG TAGGNCAATA AACCANCAAG ACAAATGAAC TGTGCTTCCA 240
AA 242

SEQ ID NO:3981

LENGTH:230

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04706

SEQUENCE DESCRIPTION:

GATCCACCTC TACACCAGCC CAGGAAGCCC CATCTGTGCC TGCCCTCAGG TGGTCCACCA 60
GTCTCCCCCT TTGGTTCCCT TCCAGTCTNT TCCCCCTTC TATCCCAATN ACCAATAGAA 120
ATGCTAACAT CCCTGCCTGG TAGCCAGACT AGCCCACTAA AGCTCCCCTG TAAATGGGGG 180
CTCCATTAGT TCTGCTGCCG AGACTAATAA ACGATTGTTG TGGCTCTAAA 230

SEQ ID NO:3982

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04707

SEQUENCE DESCRIPTION:

GATCTATTCC CACATGANGT GCGCCACCGA CACGNAGAAC GTCAAATTTT TTTTCGACGC 60
TGTCACCGAC ATCATCATCA AGGAGAACCT CAAAGACTGT GGCCTCTTNT NAGGCAGGGC 120
CTGTNCTGCA GTCGGGGACA AGGAGCTTCC NTTTGGCAAG GCCGGGGCAC AATTTGCACT 180
CCCCTCAGCT AGACGCACAG ACTCAGCAAT AAACCTTTGC ATCAGGAAA 229

SEQ ID NO:3983

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04708

SEQUENCE DESCRIPTION:

GATCCTCCCT GCCCAAGTCT TACTTCGTGA GCTGGCCTTG CTCCCCATCC CCCAAGTGCC 60
TCACCAGTCC CCCAGACTGG GTGAAGGTAC AGCTGGCTCC TTTCGGGGGT GCAGCTTCAA 120
CTCTCTCGGC GGTAGGGCGG TGCCATCCCC ACCCATAGGG CTGGCTCACA TCCAGTCACT 180
CCCAACAGCG TCCANCACAC AAATAAAAGA CCCTTTGGCC CTGAAA 226

SEQ ID NO:3984

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04709

SEQUENCE DESCRIPTION:

GATCACTTGN GGTCAGNCGT NCGAGACCAN TCTGGTCAAC ATGGCAAAAC CCCGTCTCTG 60
CTAAAAATGC AAAAATCAGC TGGGTGTAGT GGTGCGTNCC TGTAATCCCA GCTACTGGGA 120
GCTGAGGCGA AAGAATTGCT TGAACCTGGA AGGTGGTAGG CTGCAGTNAG CCAGGATTGT 180
GCCACTTCAC TCCAGCCCGG GCAACAGNGC AAGACTCTGT GTCAAA 226

SEQ ID NO:3985

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04710

SEQUENCE DESCRIPTION:

GATCCTGGGC CAAACTGATT TACTATTTTA AATTTNAGTT TTAATGNGAC AGGGCCTTGC 60
TATGTTGCAG GGTGGTGTG AACTCCTGGC CTCAAGCAAT CCTCTTGCT CAGCTTGCCA 120
AAATGCTGGC ATTACAGGCC TGAGCCACTG CCCCTGGTCT GATTACAAT TTTNAATTGA 180
GGGTTAGGGA GTCATAATAC CANCAAAGAT GGTAAGGGA ATTTN 225

SEQ ID NO:3986

LENGTH:221

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04711

SEQUENCE DESCRIPTION:

GATCATCCTC TAAACATTTT ATCATTATTT AATCCTCCCT GCCTGTGTCT ATTATTATAT 60
TCATATCTCT ACGCTGCAAA ATTTGGGTCT CAATTTTAC TGTGCCTTG TTTTACTAG 120
TGTCTGCTGT TGCAAAAAGA AGAAAACATT CTCTGCCTGA GTTTTAATTT TTGTCCAAAG 180
TTAATTTTAA TCTATACAAT TAAAACCTTT TGCCTATCAA A 221

SEQ ID NO:3987

LENGTH:221

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04712

SEQUENCE DESCRIPTION:

GATCATCATC TGTGAAGCAT CATGGTAGCT TCCAAGCATT TGCGGCCCAC TGGCCAGNTG 60
CATCCAAAAC ACATTCAGGA AACCCGAGAG TTGTAAGTTG CACATGTGTG GCCTACAGTG 120
ACTTCCATGT AGTAACAGGG NTGNGCAAGG CANGNTCTCC ACCAGACTTA AAGCATTCAA 180
CCACTCTGCC CCCAGGGCGA CACTGGNCAT GTGGTTCAAT N 221

SEQ ID NO:3988

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04713

SEQUENCE DESCRIPTION:

GATCTTTTTA AGATNNNAAT AAAGAGCTTT CCTAAATAAA ATAAGCAATA TTAACTTTA 60
GAAACTGTAC TCTATGAAAC GTGTTTTATG AAANCATCTN TTACAAAAG TGCTTACTTA 120
ACTCAGCAAG AAAGGTTTAA TGTACACATT TNACANCTAA ANTCAAAACC TACAAGAAAC 180
TGCACTGCCT TCACTATTTA CAAATCGGCC TACAAGGAAA 220

SEQ ID NO:3989

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04714

SEQUENCE DESCRIPTION:

GATCTGGCTA TCTCATTGAT TATATTTTTC TTCCCTTATA CTGCAAAGTA CATCATAGGT 60
ATAATTTTAT TTTGAGAAAG AACTATATTC CAATTTTACC TATATATTCC TACTGTAATA 120
ACCAAGAGGA CATTTCAAAA ATGTATATGC TACTATTTTC AGAAGGNTAT AGATACTAAA 180
TCTTTTAAAG CCTTATTTAA CTATGTTTTA TATTGAAA 218

SEQ ID NO:3990

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04715

SEQUENCE DESCRIPTION:

GATCTGTAA ATTGGATTTT ACATGTACAT TTGAATGCCA GAATTTCTAA ATAAATCCCC 60
TGGTTAGGAA ATTTTAAAAG TCAAAGCTTG TTTTCTTCAA CCACTACCTT CTACATTGGT 120
TGAATTAGAC CGTAAGCTTT TTAAGTTTCT CATTGTAATT TACCTTCTCA TGCAGATTGC 180
TGATGTTTTA TTAAACCTTA TTTTACAAA AATGAAA 217

SEQ ID NO:3991

LENGTH:281

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04716

SEQUENCE DESCRIPTION:

GATCTTATTA GACTCATACA TCTAATTATA GAAATACATA GACTTGATAG AATTTNATTT 60
TCAGGCNTGA AGAAATATTC TTTGGAAAAG CTAAATTTT GGTGATTGAC ATAAAGATTT 120
ACTNGCTCAT ATTANCTNGG GGGGNTAGTA CTCTCCAAGA ATTAATGTGC CCTAAAAATT 180
TTCCTCCAAA ANCTTATCCT TATCATGTGA TAATGANGAN CATTTGATTT CTGAAAGGA 240
GACTGCTGTA GGCAGCATCT GGAATGCAA NTNNGGGGNN N 281

SEQ ID NO:3992

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04717

SEQUENCE DESCRIPTION:

GATCAGCCTG GGCAACATAG CCATAGTGAG ACACCAACTC TCTACAACAG CAAAACAAAA 60
CAAAACAAAA AAACATGCAG CTGGGCATGG TGGTNACACC TGTGGTCCTA GCTACTCAGG 120
AGGCTGAGGT GGGAGGATTG CTGGAGCTAG GATGTCAAGN TTAGTGANCG TATTCGACCA 180
CTNACTCAGC TGGNAACAGA NGAGACCTGT CTAGAAA 217

SEQ ID NO:3993

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04718

SEQUENCE DESCRIPTION:

GATCATTTTT TGAGGCAGGA GCATAACACC TTCTCTAGGA TTTGTCAGCT TCTAAAAAGA 60
GCCTTTTGTA AGGACTTGTA TGAGCTTGGG TTTCACCATC ATTACTGGGG AGGCACTAAG 120
ACTGCACATA TCTCTGGGTG AAGTAATGTC TACACANCAC CTTTCATAGC AATAGTTCCC 180
AGCTAGCATA CCTGCTTCTG CCAGTCCAGG GCCAAA 216

SEQ ID NO:3994

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04719

SEQUENCE DESCRIPTION:

GATCCAGACT ATAATCCTGC TGACCCAGAG AGTGACTCAG CTGACTAATG GACTGTCCCC 60
ATCTGCAGAG AGGCTTGACT GCCACAGCAT CTGTGGCTAT GCTCAGAGGG TTATGATTTT 120
CCTTTCTTTT NNNTAAGAAA AAATTATTTT CAGGAGAATA TTCTTCTGAT AGCTTTCATC 180
ATTGAACTTA ATAAACTGAC CTAAAAATTT CAAATATAAA 220

SEQ ID NO:3995

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04720

SEQUENCE DESCRIPTION:

GATCTAAGGA AGAACTTGCT GCTGCAGTAT TGAAACTGTG AAGAACTGAC ATTTGAAGAA 60
AAATAGATTA CCGTTGCGGG ACTAGAATGG GCGACTGCTT GGAGCCAGTG CTTGTTTTTA 120
TCTAGGACAC TTA CTGTCTCT GTGAAGTAGA ATACATTTAT CTGCATTTAG TTTGTTAATG 180
TCTGAAATGA ATAAAAAGAG GAAATTGCGA TTAAA 215

SEQ ID NO:3996

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04721

SEQUENCE DESCRIPTION:

GATCCAGAGA CAGAGGCAGC CTGTCTTTTC AGTTGGTTTC TGCTTTTAAT TTACTTGTAC 60
AATTCATTGT TACTGTTCTG TTTTTCCTAT TAATCTTTTG TCAACTTCCT GATTATGTAA 120
CAAAGTATGT ACAGTCTACT TTTGACCTAT TTTTATCACA GTATNATTNA TTNCTTCTTT 180
CAATAAAGTA CTNGNGCATA TTTCCACTGC CAAA 214

SEQ ID NO:3997

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04722

SEQUENCE DESCRIPTION:

GATCCGNAGT TCAAGGGAAG AGGAAGTTGC CTCTNAGCTC CATCTCTCTG CGCTGCTAGA 60
CATGGTGGAC ATTTGAGCAG CCTGACCTGT GGGGAGGGGG TCTCTCCCGA AGAGTTTCTG 120
TTTTTACTCA AAATAATGTT ATTCTCAGAT GCTTGATGCA CTGTTGGAAA NGGGGATTAA 180
TTTAATCATG CAGATAAACC ATTTAAATGT CAAA 214

SEQ ID NO:3998

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04723

SEQUENCE DESCRIPTION:

GATCGAAACC AGCCTGGTCA ACATGGTAAA ACACTGTCCC TACTAAAAAT ACAGAAATNA 60
GCCAGCAATA CAAAAATTGG CAGCTGTAGT CCCAACTACT TGGNAGGCTG AAGCACAAGA 120
ATCGCTTGAN CCCAGGAGGT GGGAGGTTGC AGTGAGCTGA GATTGCGCCA CTGCACTCCA 180
GCCTGGGCGA CAAAGCGAGA CTCTGTCTCA AA 212

SEQ ID NO:3999

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04724

SEQUENCE DESCRIPTION:

GATCTCAGNA ATTGGAAGAA TTGTCCTGTC TGTCACCTGT TTTGTTGCCT TAATAAGCAT 60
CTGAATGTTT GGTGTGTTGG CGGGTTCTGA AGCGATGAGA GAAATGCCCC TATTAGGAGG 120
ATTACTTGAG CCCTGGAGGT CAAAGCTGAG GTGAGCCATG ATTACTCCAC TGCACTCCAG 180
CCTGGGCAAC AGAGCCAGGC CCTGTATCAA A 211

SEQ ID NO:4000

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04725

SEQUENCE DESCRIPTION:

GATCAAGGCT ATGAACATCT TGTGAAGTAG GATGTTAAGT CTGCAATAT CAGAGTGAAT 60
CCAAACTTAT CAATTCAACA CTGGATTGTA AAACAGCTCA AAAAAAGACT AAAACACAG 120
CTCTACACTT TAGGAGGTTG GGGCAGGCAG ATTGCTCGAG CTCAGGAGTG GGAGACAAGT 180
TTAGGAAACA TGGAAAAACC CTGTCTCAAA 210

SEQ ID NO:4001

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04728

SEQUENCE DESCRIPTION:

GATCAGCATT CATACCATAG TAACTGATGT TGAAAACAGC ACAAATAAAC CAGAAGTTGA 60
AAATGGCAAT AACATGCTAA AAATTGCAA GTCAATTTGA NNACACTTGT CCAAATCTTG 120
ATTTTTTTTC CTTCTCTATC GTTCCCCCCC CACCACCAGC TTTATGGAGG TATAATTAGC 180
AAATAAAAAG TATACATATT TAAGGTAAA 209

SEQ ID NO:4002

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04729

SEQUENCE DESCRIPTION:

GATCCTATGA ATTAATTCAG AAAGCAACTA AAATAACAAT GGCCTGCCAA ATGTCATTTT 60
 GTAAATATAC GTCTATGACT TTAGGAGCTG TCCTGGTTTG AAAACATGAG GACAGTTTAT 120
 CCATTGGATG CCATCTATNT AGTCCCAATT AAGAAAAGTTG TTTTTTTGTG AGAATGACCA 180
 AGGTAAATTT AAATATACCA TTCAAACAN 209

SEQ ID NO:4003

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04730

SEQUENCE DESCRIPTION:

GATCGATGAA GCACTTTTTT ATTAATATTT TCCTTTGTTA AAGGAGGAAC CGTAACTCTC 60
 CATAGCTGTA CATATAACCC TTTTCTCCTA AAGAGGAGTC AGTCAGTGCT CCTATATTTT 120
 TCATTTTTTG TCAAAGCAAG AAGTAAATAC TTTAGAATTG TTAAATATAT AAATAAAGCA 180
 AATAAAGTTG AGTGTTCCAC ATGGTAAA 208

SEQ ID NO:4004

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04732

SEQUENCE DESCRIPTION:

GATCTTTCCA CATACTACTAC ATTGTATTGT TCAAAATTCA TAGAAATNAC TTGCAATATA 60
 TTGATTTAAG CCTTATGTAG TGACTGTTGC TATATTTAAA GTAGCATTTT NAGTTTGCTG 120
 TTTTTCCTCA CTGCTTAATC CTACAAAAAC CAGCCATCTG CCTAAAAAAT AAAAGAGCAA 180
 AANTGNATCA GTGCAACCGG TATACGN 207

SEQ ID NO:4005

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04733

SEQUENCE DESCRIPTION:

GATCCACATC TCAAAGAAGT GGGACTTCAC CAAGGTNCAA TGCTGATGAA TTTGAACNCA 60
 TGGTGGCTGA AAAGGGGCTC ATCCCANGAT GGCTGTGGGG CAAGTCATCC CAGTCGTGGC 120
 CTATGGCAAG TNNNGGGCCT NACTCATGAG GGCTTCAATG TGCTGCCCCC TCTTAATACT 180
 CACCAATAAA TTCTACTTCT GTCCAAA 207

SEQ ID NO:4006

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04734

SEQUENCE DESCRIPTION:

GATCTACATT ATTACAGCAGC CTCGAAAATG TTAAGCCTGG ATTTAAAACA CAGCCGTCTG 60
 GCCAGCTGCC TCGAATATCT GACAGCTTAG CAAAAAGGGC CANAGCTTTC CATAGGCGTG 120
 CTGCACTTGC TTGGTAAATT AAGCAGCTTT TGTATCTTCC CCTTTGACTT TAGGTAATAA 180
 AGCATCCAAA CTTGTAAATC TGAAA 205

SEQ ID NO:4007

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04735

SEQUENCE DESCRIPTION:

GATCTGGGAT AAAACCAGAC TGAAAGGAAT ACCTCAGAAG AGATGCTTCA TTGAGTGTTT 60
 ATTAACCAC ACATGTATTT TGTATTTATT TTACATTTAA ATTCCCACAG CAAATAGAAA 120
 ATAATTTATC ATACTTGTA CATTAACTGA AGAATTGATA ATAAGTGAAT GTGAAACATC 180
 AATAAAGACC ACTTAATGCA CAAA 204

SEQ ID NO:4008

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04736

SEQUENCE DESCRIPTION:

GATCTNCTTT TTATCACTAT AGTTTGTATT CCTAGAATTG TATATAAATG GAATCCAACG 60
 GGCACAGTGA CACATGCCTG TAGTTCCAGC TACTTGAGAG GCTGAGGTGG GAGGATTCCT 120
 TCAGCCCAGT TCAAGGCTGC AATGAGCTAT GACCACGCCT ATGCACTNCA GCCTGGGCAA 180
 TATAACAAGA CCCTATATCT AAA 203

SEQ ID NO:4009

LENGTH:202

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04737

SEQUENCE DESCRIPTION:

GATCTGAAAA GAATTTNTAT TTAAATTGGG TTGAGGGAGA GTAGATACAA TGAAACCTTA 60
 AATTCAGCT TTNATTCTAA ACCCTTTAAT TTTTATGGG TTATGTTTTA CTGGGCAAAA 120
 CTATCTGTGT TTCTNTCTTA GTGATATAGC ACCCTTAAAG TAACTTGAGT GGTAAAGGAA 180
 ATAAAATACA CCAGTTTTCA AA 202

SEQ ID NO:4010

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04738

SEQUENCE DESCRIPTION:

GATCCTCTTC CTGCTCCAGT TGCTGGCCGA CCACGTCCCT GGC GTTGCC TGGTCACAAG 60

GCCGCTCATG GATTACTTGC CCACCTGGCA GAAAATCTAC TTCTACAGTT GGGGCTGACA 120
GACCTCCCGG AAGGAGGGTG TGGGGAGGGG TGGGGCAGGG AGCCCCTCTT CCCTAATAAA 180
ACTGACTCCG GCAGCGTCAA A 201

SEQ ID NO:4011

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04739

SEQUENCE DESCRIPTION:

GATCCTATTT GTACAAAAAA ATGTAAACT TAAAATTGCA CAAAATTTGT NACCTGTACC 60
AGCTTTTAGA ACTGTTTATC TTATCCTCCT CAGTGATACA TCATGAAGTT GTGTGCTTTG 120
CCTAAAATGC CCAATTACCT GAAATTGTAT AAATNCTTGC CAAAAGTGTT TGAACCTAAT 180
ACAAACTTCC CATCTCTTAA A 201

SEQ ID NO:4012

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04740

SEQUENCE DESCRIPTION:

GATCTCATTT TATTTAGCAT CAGCTCAAGA AACTNAAGTC TTAGTGACA GTATCACAAC 60
AAAGAAAAAG CTTGTTTTT ATAAGTGGTA AAAACAAGAA AAGATTCTCA TCAAAATGAA 120
AATATAAAAT TAATCATTTT TCACCAAAGA GTATGCCTGG GAGCCTCCAG CTGTAAAAAG 180
NCAATGCTAT TACTACTTCT N 201

SEQ ID NO:4013

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04741

SEQUENCE DESCRIPTION:

GATCCAAGTT GCCCTTGGGG TATAAACTT GACAGCAGAG GGCCTTCAGG GTCCCTCAGC 60
TGCAGTGTGA AGTGGGACAC ACAGGTGAGA CTCCATCTGC CCTGGGCAGG TTCCTGAGCC 120
TTNGGGGACC AGTTCACCCT ACATCCCAGG CTTCTGTTGT CCCTTGCCTG CCTGTAAGGA 180
ATAAAGTTGC TTTGCTTAA 200

SEQ ID NO:4014

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04742

SEQUENCE DESCRIPTION:

GATCTGACCT TTTCTTCAGA TACATAAGCA TTATTTTCTC TGTTTAGGTC CAAGGAAAAA 60
CAAAAGGTAA AGGNAATAAA GGGAATATAC ATAAGGCAAA CATTTCTCTT TTTTTTTTGC 120

ATTATATCTT ACCAATTAAT TAAATTGTGG CCTTTGTTAT TATAAATGTA ATGATTCATT 180
AAACTATATT ATGTAATAAA 200

SEQ ID NO:4015

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04743

SEQUENCE DESCRIPTION:

GATCCTATGA CTGACATCAA CTAAAATTTA AAAGAAGAGG AAGACTCAGT TGGGAAATTT 60
TNCCATGAGG AAAATGTGCT TTGGTGCAAG GTACAAGGCC CACACCCTCT CTGAGAGATA 120
CTATGATTAA AAAAGCTTTA TATCTTGGGA TTTNCACAA CTGATAATGT GCAAAGNTAT 180
AAACNGATTA ACTTGTCAAA 200

SEQ ID NO:4016

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04744

SEQUENCE DESCRIPTION:

GATCTTTCAA GAATGAACCA AGGNTTTTTA AAAGAATTAT AGGAAACACT TCATTCTTTA 60
TAAAACTTTC TATAATGCCT TATTTGAATG TTAATCTTAT GTGCTTTCTA AAAAATGTTG 120
TGAAATACCA AACTTATGGA TTATCACTAG GTTATCAAGC ATATATNAGT CTTTATCAGA 180
NTAAAATGAA ATTNCAATAA 200

SEQ ID NO:4017

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04745

SEQUENCE DESCRIPTION:

GATCTGAGAG GCAGTAAAGC AGTGATGAAG ACAGTGCAGC AGAACATTGA AGTCCTGATT 60
GCAGCAGTGA CTCTGCAACC TTGGATAAAT TATTTCAATC TTTATTTTGT AAAACGGAGA 120
TAACGGCCTA TAGGATTNTN AAGACTGANT ATTTTAAAG NGCTTAGAAT GGTGCCTGAC 180
AAATGAGNNN CANTAAATN 199

SEQ ID NO:4018

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04746

SEQUENCE DESCRIPTION:

GATCATGTGA TTTCTATTTT TNCACACAG GGTAAGGGAC GAGTCTTCTG GAAGGCTCTG 60
CCATGGACAT TTGTCTCGG GCTCAGAGGC CCCACCCTGC CCCACACCTG CCCCTAATCA 120
CTGCAGTGTC CAGCCAGTG TTGAACAGAT TGTAGCGTTC TGTCTCATTG CGAGCAAATA 180

AATAGACTTT CATTGGAAA

199

SEQ ID NO:4019

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04747

SEQUENCE DESCRIPTION:

GATCACGCGG CATGTATTGA GGTGTGGCAT GCAGCATTTT GGAAGGAAAA TTGAAGACGT 60
GTTCAAGAAA ACATGAACAG AAGCAAATNA TGAAAATGAG CATTTTACTT GATGTTGATA 120
ACATCACAAT AAATTATGGA GAAAAATACA TATTTGGCTA ACTTTTAATT GCTGANCAAT 180
AAAGTGTTTT CTTTAAA 198

SEQ ID NO:4020

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04748

SEQUENCE DESCRIPTION:

GATCCCTACC GCCAGCTGCG AGAGAAGGAC CCCAAGTACA GTGCTCTCCG CCAGAATTTT 60
TTCCGCTACC ATGGGCTGTC CTCTCTTTC AATCTGGGCT GCGTCCTGAG CAATGGGCTC 120
TGTCTCNCTG GCCTTGCCCT GGAAATAAGG AGCCTCTAGC ATGGGCCCTG CATGCTAATA 180
AATGCTTCTT CAGAAA 196

SEQ ID NO:4021

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04750

SEQUENCE DESCRIPTION:

GATCATGAAG AAGCAGGGCC TCTACCTACA AAAGTNAATC TTGCTCATTC TGAAATTTAA 60
GCATTTTTCT TTTAAAAGAC AAGTGTAATA GACATCTAAA ATTCCACTCC TCATAGAGCT 120
TTTAAAATGG TTTCATTGGA TATAGGCCTT AAGAAATCAC TATAAAATGC AAATAAAGTT 180
ACTCAAATCT GTGAAA 196

SEQ ID NO:4022

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04751

SEQUENCE DESCRIPTION:

GATCTGGTTC CAGGGGAAAA AAATAGCTGG TTGGTGTCTA GCCCCCAAC ACTTTTGTCT 60
GTTGTGTATA AAAGAAGAAA GACTGGCATG TACCTTCATT TGCTTAGCTA TTTGAGTATC 120
TAGAGAAAAA TTTAAATGCA ATGAGTTAGC AGTATACCCT GGCACACTTA ATAAATTTAA 180
CATTTGTGGA GCAA 195

SEQ ID NO:4023

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04752

SEQUENCE DESCRIPTION:

GATCTAGAAG CTGGTAAAAA TGACAATATC AATCACATTA GGGGAACCAT TGTGTCTTC 60
ACTTAATCCA TTTAGCACTA TTTAAAATAA GCACACCAAG TTATATGACT AATATAACTT 120
GAAAATTTT TATACTGAGG GGTGTTGAT AACTCTTGAG GATGTAATGC ATTANTAAAA 180
ATCAACTCAT CAAA 194

SEQ ID NO:4024

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04753

SEQUENCE DESCRIPTION:

GATCCAACAG CAACACCATT TTTAAATTAT TGTGAAAAGA TTAACGGCA ATGTACAGAG 60
TTTACTCAA GCCCTTCTTA AGGGAAAACA CTACAAAAG TCACAAGGAT ACCAAATGGA 120
AACACATGAT GATGCCTCTG GGTCTGTATG AGACCGTGAT GAAGTAGAAA TAAAGCCCTT 180
CTGAGATGGC AAA 193

SEQ ID NO:4025

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04754

SEQUENCE DESCRIPTION:

GATCCACGGT GGGCTCCAGC TGCCAAGNCA CCCAAGGGAG TCTGGGCCCT AGGCCTAGCC 60
CCATCCCTCC CCATGAGGGG CCAAGACACT GCCTAAGGTG TGGGAGGGAC TGGCTGAGAT 120
TGCAGCCCAT GGTAGGAGCT GGACCAACTG TATATAGTTT TCAATAAACT TTTTCCTTTT 180
CTGTTCTCAA A 191

SEQ ID NO:4026

LENGTH:264

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04755

SEQUENCE DESCRIPTION:

GATCCAGGAA GTTGGTGAAC CATCTAAAGA AGAGAAGGCT GTGGCCAAGT ATCTTCGATT 60
CAACTGTCCA ACAAAGTCCA CCAATATNAT GGGTCACCGG GTTGATTATT TNATTGCTTC 120
AAAAGCAGTG GACTGTCTNT TGGATTCAAA GTGGGCAAAG GCCAAGAAAG GNGAGGAAGC 180
TTTATTTACA NCCAGGGAGT CTNTGGTTGA CTA CTGCAAC CAGGCTTTTA AAGTAGCAGT 240
TTNTTTCACC GAGCCCTAAA GGTN 264

SEQ ID NO:4027

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04756

SEQUENCE DESCRIPTION:

GATCTTCACA TATTTTATAT GNATATATAT ATCAAGAAGT TATATATATA TAACTCAAGA 60
AACTCAAGTT ATATATATAT GTCAAGAAAT GTATGATTAT TTTGGAGAGA ATGGGCCCAA 120
ATGTGAAAAA GATATAAAAA AAACAAAAAA AACNNAAAAA AAACCNCTNT TTNCCCCTNC 180
GNANTN 186

SEQ ID NO:4028

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04757

SEQUENCE DESCRIPTION:

GATCTGGAAG TCACCCTCCT CTGGCCCACG GAAAATTTTG GTAATCTTCT AGGTTCTAAA 60
ATGAAGATGT ATGGGTACTC TGGCAGACTG CATGTTGTAT AATTTGAAAA ATACTAAAAG 120
TGGAAAATAA AATTGAATTA AACTTTGAAA 150

SEQ ID NO:4029

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04758

SEQUENCE DESCRIPTION:

GATCAACAAG TTCAAAACAC TGCTAAGTCT AAATCTAAAA CAGACCAAGA GTACCTTCAT 60
TTAANTTTAG CTTGCACAGA GCTTGATGCC TATCTNCAT TCTTNCAGA AGTAAAGATA 120
ATTATGGCAC TTATGCCAAA NTTCATTATT TAATAANGTT TTAATTGAGG TAACATTACT 180
GATTN 186

SEQ ID NO:4030

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04759

SEQUENCE DESCRIPTION:

GATCCAACAC AGAGACAATA GAAACATTGG GATTGAAGAG ATTCTTGGA CTGTAAAAAT 60
CCCAAGAATA TGGGATTGTA AAAAACCTGT CATCTTACTG CTATGATAGA TGAAGATTTT 120
GCTTGCCTAT ACCTTGTINGC TATTCCTCTC TTCCTTTCCT CCAAATATAC TTGTAGGTAT 180
AAA 183

SEQ ID NO:4031

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04760

SEQUENCE DESCRIPTION:

GATCTAGCAT TTTAATTTCT AGCATTGCTA TTCACCGGCT TCCTTATTTT ATATGTAAAA 60
ATTAAGATTT TATATTTAAT CTTCTTGTTT CTCATAGATA TTTTGTGAGC ATTTTNTTGT 120
TTATTTTGAA GAAATGTGGA TAAGATACTT GGTAGTATAA AACAGNCTCT CTGAGAGTAT 180
TTN 183

SEQ ID NO:4032

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04761

SEQUENCE DESCRIPTION:

GATCAAGGTC TGTATATTAT CCCAAACTTT ATTAAGAATT GTTTTCTAAT TNGTTATAAC 60
ATTTTNAAT TAATAGTTTC AAAACAAATT GTTAATACAA CTGTATAAAA TGAACATAAT 120
TTTCCTCACT TGTATTTTGT TTATTGAGCA AGTTTATCAA AATAAATNGT CTACTAAAGA 180
AA 182

SEQ ID NO:4033

LENGTH:181

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04762

SEQUENCE DESCRIPTION:

GATCTCTTAT CAATTAGCAC TCACTAATGT ACTACTAATT GAGCAACCTA CGCACTCAGT 60
TGACTACGTA AATCTGTCAG GTCTTTTGTG ATTCCTCTG ATGCAGGAGA GGAAAAATTG 120
TAATTGATGA AAATAATGAA TGAAAAATCAA CAGATGAATA AATGGTTCTT TATAAGTGAA 180
A 181

SEQ ID NO:4034

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04763

SEQUENCE DESCRIPTION:

GATCTGGAGT CCCACGTTCC CCAAGGCCAG CGGGATGTGT GCCCCTCCTC CTCCCAACTC 60
ATCTTTCAGG AACACGAGGA TTCTTGCTTT CTGGAAAAGT GTCCAGCTT AGGGATAAGT 120
GTCTAGCACA GAATGGGGCA CACATTAGGT GCTTAATAAA TGCTGGATGG ATGCAGGAAA 180

SEQ ID NO:4035

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04764

SEQUENCE DESCRIPTION:

GATCCTGTTT GTACAAAGTC TTGCTTTTAT AAGGTTTCAA TAATATCTAA AACAAACACAT 60
TAAAAAGCTG AGACCATTTT ATGAAGATAA TTGTTTGTA TCATAGGTGT TGAAAGTAAA 120
AAGGTGCCAT CTTGTGGTAT TGAATTGTAT TTATAACAAA TAAACTGCTC AAGAGACAAA 180

SEQ ID NO:4036

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04765

SEQUENCE DESCRIPTION:

GATCCTGGTT ACAGCCATTT TGTGTGATTC ACTTCGGGGG TTAAGTAATG CAGGATTCTG 60
CAAACAAGGT GTCGCCGTCC AAATGTACTG TCCTGGCATA GAGAGCACTG CTTTGTTTTC 120
CACTGTTGTA GAGAAAAC TA GGGAGAACTT TATTTTCAA TAAACTTTTC TTGTGTGAAA 180

SEQ ID NO:4037

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04766

SEQUENCE DESCRIPTION:

GATCATGTAT AAAAAGAAAA AAAAGAAGTC ATGCTNTGTG GCCAATTATA ATNTTNCA 60
AAGACTTTGT CACAAAAC TG TCTATATTAG ACATTTTGGA GGGACCAGGA AATGTAAGAC 120
ACCAAATCCT CCATCTNTNC AGTGTGCCTG ATGTCACCTN ATGATTTGCT GTTACTNN 178

SEQ ID NO:4038

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04767

SEQUENCE DESCRIPTION:

GATCAGGATT TGGGAAAATT GTGGTCAATA TTTGATTTTC CTTTCTGTT TGATAGCCTT 60
ATCTAAATTC CCCTAGCTTG AATGTAGTAA ATATGAGTGT GTAAAAATGT GTATCTAATT 120
CACCTCTTNG GGGAGGTTTA ATGTAACAT AAATAAAAAT TCTTTCCCA GGTAAA 177

SEQ ID NO:4039

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04768

SEQUENCE DESCRIPTION:

GATCTTACCT CCTAACCAAC TCCATACATC ATGACCAATG GCTCAGTCCA AGCNGTCATC 60
TCTTGCTTGG TCACTGCAGG TACTTGCTAA CTTTCTTCCC AATAATCCAA CCCCCACAGA 120

GCAGCCAGAG TAGCCTTTTT TTGTTTGTG TTGTTTGTG TTGTTTGTG TTGTN 175

SEQ ID NO:4040

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04769

SEQUENCE DESCRIPTION:

GATCTTAATA GCTAAAATAT GAAAAATATT TGGNAAGTCT GAAATNAGGT CTCCTGGCCC 60
TGGTGTGCCC TTAATGCCTG TNACAGTTGG CCTCTGTGAA TATTGGTATA ATTNTAAATA 120
ATGTCAAACCT CCATTTTNTA GCAAGTATTA ATAATTAAGG GAAGTATGTC TGAAA 175

SEQ ID NO:4041

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04770

SEQUENCE DESCRIPTION:

GATCCTCAGG ATATGCAGGG CTCAAGAGAA ATGAAATATC TTGGGGATAT GGTTACTTAA 60
GACGTGATAC TGTCACAGTG AATTTACAG AAGATGGTGC TGCCCTAACT GAGGTTCAAT 120
CCATGTATAA GCCAGACCAA TCTGAAGACA AATAAAGTAT TTCACAGCCA CAAA 174

SEQ ID NO:4042

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04771

SEQUENCE DESCRIPTION:

GATCTTCAAA CATTAACCTA AGCAGACCAA AAATTCTGAT GACCGCATCT AGATTATTTT 60
TTTATAAAAA TGATTTTCAC TATAGCTATG TTACGCTAAG CTACTGTCCA ATCTCTTGTG 120
ATTGTGTAAC TTTACATGTG AATATTAAAG TAGATTTCTC TGTCTTGTA A 171

SEQ ID NO:4043

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04772

SEQUENCE DESCRIPTION:

GATCTTTAAA GATGTGCTAA ATGACTTTTT TGGCCAAAGG CTTAGTTGTG AAAAATATAA 60
TTTTTAAATT ATACATTCAG GGTAGTGGCC AAATGTAACA CATCAATCAT GGAATGATTN 120
CTCTGCTAAC AGCCGCTGTG ATGTTTCAAT NAATTTGTCC AAAGCTCAAA 170

SEQ ID NO:4044

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04773

SEQUENCE DESCRIPTION:

GATCCTTCCC AGTGGACAGA TGAAGAATTA GGTATCCCTC CTGATGATGA AGACTGAAGN 60
TGTAGACTCA GCCTCACTCT GTACAAGAGC CAGGTGAGAA TTTCAAGGAT TATCGACTTC 120
ATATTGCACA TAAAGTTAC AAATTAAAGT GGCTTGGTCA AGAATGAAA 169

SEQ ID NO:4045

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04774

SEQUENCE DESCRIPTION:

GATCTAGTGT GTAGTGAGCT CAGTATAGAG GACAGAGCTT TCATCATGTA AATTNATATG 60
CAAAGCCAAA TNAACGTGG TGTGTACTTC CTA CTGATGC GTCAGGGTAT AGGCCTCTTT 120
TTCTGCCATT CAAATAATGG AAGTTAATTA AATTTTAAAC AAATGTAAA 169

SEQ ID NO:4046

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04775

SEQUENCE DESCRIPTION:

GATCCATACT GAAAAAATNC TGAGCCAGCC ATCTTTGGCA AAGNNCCCTG AGCTCTTGCT 60
ATCTCTCAAG AGTGCTGAGA NCCACGGTGA AAGTNCTGCT CTAGGCCAC AAGTGTAAC 120
ATGCTGTAA CAGCTGTCAA TAGATAATTA AAATTCATAC TGTATGAAA 169

SEQ ID NO:4047

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04776

SEQUENCE DESCRIPTION:

GATCTCTGTT CTNGNTTGAA TGTATTTAAT TTCCAGCAGA ATGAGCCCCA TTCCTTATTT 60
TGATTGGCCA TTTATCATGT ACATATGGTG AAATGCCTAT TCGTGA CTTA GCCAATGTTG 120
TTTCTTTTTC TTA CTGATTA CTACAGTACA TTTTATATG AAAGCAAA 168

SEQ ID NO:4048

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04777

SEQUENCE DESCRIPTION:

GATCTGCTGA AGCATCTGTC CAGCTGGTAT CCTGTGAAAG TTTGTAATTT NCTGAGTAGA 60
CATTCTTATA GAGTATTGTC TTTAAAATCA GATTGTCTCT NCTATATTGA AAGCATTTNN 120

ATGTTTNCNA ATTTAAAAAT TAATATTTCC TTATAGATAT TGTGCAATAA AGCTGAAGTA 180
GAATGTGTGG TTTTGGCAA TNCTTTAGCG GN 212

SEQ ID NO:4049

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04778

SEQUENCE DESCRIPTION:

GATCTTGTCT CACAAAATAA ATTTAAAAGA TTTTAAATA GCAGGTTTCT AAAACAATGA 60
GAAAGACAGC ATTACATATC AGTGTCTACA ATTTAAACAA AGCTATACTT AGAAGTAAAT 120
TCATTGTCTT AACTGCTTTT GTTCCAATAA AACAAAATAG CAGGAAA 167

SEQ ID NO:4050

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04779

SEQUENCE DESCRIPTION:

GATCGTTACT ATGTGTCAAA GGGTTTGGAG AACATTGATT AAGGAAGCAT NTTCTGATT 60
GATGAAAAAA ATAACCTAGT TATGGCCATC TACCCCTGCT AGAAGGTTAC AGTGTATTAT 120
GTAGCATGCA ATGTGTTATG TAGTGCTTAA TAAAAATAAA ATGAAAAAAA TGCAAA 176

SEQ ID NO:4051

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04780

SEQUENCE DESCRIPTION:

GATCTATAAC TGTACTTTGC CTGGCGCTGT GCGAAGGTCA GAAACTTAC TGCTAGTACC 60
TAGAAACACA CAAGGCTGCC CAGCCAAATC TTAATGTAAA GTAGCTAGAG CCATGGAAGT 120
ACAGTATGAA TTAAAAAGAA AAANGTATTG ANCTTCAAAT TCTAAA 166

SEQ ID NO:4052

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04781

SEQUENCE DESCRIPTION:

GATCTTGTA GTAGGAAAGC TGTAACATAA AATTGTATTG TTTGCTTATT AGCCATGTAT 60
CTCTTAAAT TTTGTTATGT TTACAACGAT GTACCTTATT GGCAACAAGT TATTAGTTTG 120
ATGTTTAAAC ATAGTGCCTT TAGTAAATNA TTTTACAACT AAA 163

SEQ ID NO:4053

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04782

SEQUENCE DESCRIPTION:

GATCCAAAAG CTGGCTNTCT AACCACCAGC CAAGGGCTCT CTCACCACC AAGCCAACTC 60
TCAGGGCAGC AGCAATGTGT ACCTTATTAA CCTCTGCACC CNAGGTCCTA GCACAGGGCT 120
NGTCCATAAC AGGCGNCCAA TAAACATGTG TCATAATCTA AA 162

SEQ ID NO:4054

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04783

SEQUENCE DESCRIPTION:

GATCCCTGGT CCTGCCGACA CGCAGCTACT GAGAAGACCA AAAGAGGTGT GTGTNTGTCT 60
ATGTGTGTGT TTCAGCACTT TGTAATAGC AAGAAGCTGT ACAGATTCTA GTTAATGTTG 120
TGAATAACAT CAATTAATGT AACTAGTTAA TTACTATGAA A 161

SEQ ID NO:4055

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04784

SEQUENCE DESCRIPTION:

GATCGGCACC ACACCAGACA TAATCCTGGA CGACTTGCTG GAGACGGACC GCGTCACCGC 60
CCACTTCTAG CCCCGTGGAT GCCGTCACCA CCAGCACACG GAACTACCTC CCACCCCCTT 120
TTTGTACAAA ACACAAGGAA AAACATTTTT TGCTTGAAA 159

SEQ ID NO:4056

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04785

SEQUENCE DESCRIPTION:

GATCTAATTC TTTTGATAAA GTTCTAGCTC TAAAAGTGAT AGTGGGACTG TATGTTTTCT 60
GATACTGGTG GCTTATGTTA TTAANCCTTT TTAAAAAAG GTCCACTCTA AAGGCTGANN 120
NCCACCCTAN GTTCCAGCC TCCTGGCCTC NACCNGGGN 159

SEQ ID NO:4057

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04786

SEQUENCE DESCRIPTION:

GATCTTGTGT TCTTTGTGCC AATATGAAAA GGAGAGGGTT GGTTCTTTCC TTTATTGTTG 60

AATGCTCCCA TTTAATGCTT TATGGCTTTT ACTGTATTAC TTTTITAGAC TCCCGTCTGC 120
ACAAAATGCA ATAAAAATAA TTTTATTATA CCCTTAAA 158

SEQ ID NO:4058

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04787

SEQUENCE DESCRIPTION:

GATCACA CTG GGGAAAAGTG ACAGAACCAA ATTTCAA ACT CCAGTCTTTC TGCTTCTAGA 60
GATTGA ACTA CTAACATCTG CATTATATAA AATTAAGTNT CTCAAGGTAG TTTGTGAACG 120
TAACATACAA ATAAGTGATT AAAATTTTNG GTGATAAA 158

SEQ ID NO:4059

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04788

SEQUENCE DESCRIPTION:

GATCCCAAGT GATTAAAATA GGGTTTCTGA ATGGATGTTG AATGGCGTGG ACTCGCTACT 60
CCGTTCTTCA CAGCTGCCTT CCAGAATGTG TTCAAAAAGAA AGACAAGAAG GAGTGTATGG 120
CTTATAAAGT GAATCTAATA CAGTATTTGT TGCATTTAAA CAACTAGAC ATTTTCTTAC 180
GGAAAANTTA TGAAATACAG CATATTTNAT GTNCTCCCAT TGACTCAATC ATGACAATAT 240
TTCTGCTTTA ACACCATCTT TCATGATTAG NAATGTTTGT NATTGAAAT GTTACACCAT 300
GTAAATAN 308

SEQ ID NO:4060

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04789

SEQUENCE DESCRIPTION:

GATCAGCCCC AGATTTGACG TGCAC TCAA GACCTGGAAA AATGGCAGAA TAATCTGCTT 60
CCATCCCGCC AGTTTGTTT CATTGTACCT GACCACCCTC ACNGGCAANC ATGGACCCAT 120
GAAGNAGCAA NNCGGAAACN CACNAGAGGG AAAAN 155

SEQ ID NO:4061

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04790

SEQUENCE DESCRIPTION:

GATCTCATT A GTATGTTTT TAATGTGTAG AATTAACACT TTAAAATAAA CAGGTGTGAA 60
AATTATAAAG GAATATATAT GACAATTATT TNCTGTACAT TAATGTCTAA ACATTATACT 120
TACTTTTCCA TAATAAAGGA AATTTTGGAA CAAA 155

SEQ ID NO:4062
LENGTH:155
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04791
SEQUENCE DESCRIPTION:
GATCTTAAAA CCCAAGACAT TATATTTGAA GGGGCACAGC AAACAGTGCA AGAAAATCTG 60
CTGATGGAAG ATNATTTTNA TCAGTCCTCA GANCCAGAAA CTATAAACT GGGAAGGAAA 120
GTTTAAATAA AGANTTTATT TCCAAATTCA GCAAA 155

SEQ ID NO:4063
LENGTH:153
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04792
SEQUENCE DESCRIPTION:
GATCTAAGNA GGATTCAACA CCTTTNTTTG GTTGCTCAGT GTGTAATGAC TGAGATTTGT 60
AAATCTTTGT GAACATTCTG TACTGGTTC CAAGAGCTAT TCATTCCCTG CTACCTGATT 120
TCAGCACAAAT AAATATACTT CTGCTGTGGG AAA 153

SEQ ID NO:4064
LENGTH:152
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04793
SEQUENCE DESCRIPTION:
GATCTTAGCT GTATGGAGTA ACTATTTTCA AAAACCCTAT AAGAAGTTCA TTTTCTTTCA 60
AAAGTAACAG TATATTATTT GTACAGTGTA GTATACAAAC CATTATGATT TATGCTACTT 120
AAAAATATTA AAATAGAGTG GTCTGTGTGA AA 152

SEQ ID NO:4065
LENGTH:149
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04794
SEQUENCE DESCRIPTION:
GATCAGAGAA GGCTGAAGAA GGTGGAGAAA CTNAGGCACA AAAAGAGGGC AGTGAAGATG 60
CGGGCAACCT CCCTGAAGCC CAGGAGAAGA ATGAAGAAGA AGGAGAGACA GCCACAGAAG 120
AGACGGAAGA AATAGCCATG GAGGGTGCN 149

SEQ ID NO:4066
LENGTH:149
TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS04795

SEQUENCE DESCRIPTION:

GATCAACTAT GGGTTTATAT AAATNCCAAA TTTAGTACAA CAAATTTAGG TCATCAGGTG 60
AATACAAGTA TTTTTTTTAA CAGGNAACAT TTTATTATAN NAAAAATATT AATGATAAAC 120
GCATATTGGT TGA AAAATAT TTTTAAACN 149

SEQ ID NO:4067

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04796

SEQUENCE DESCRIPTION:

GATCTCTGTG ACCCATACCC TATTTNTACA CTCCTCCCC TTTGAAAAT CACTAATAAA 60
AAATTTNCTG GTTTTATGGC TCAGGGGGCA TCACAGAACC TGCCAACATG TGATGTCTGC 120
CCTGGACACC CAGCTTTAAA ATTTCAAA 148

SEQ ID NO:4068

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04797

SEQUENCE DESCRIPTION:

GATCATTTTC TTGGGACCTT GAACTGTGAA TGTTTTGTCC TAACCATTTA ATATTTTCTA 60
GGTACTTGCT GCAAGTNCTT GAACTATTTT ACCAGCTTTA ACTTTGGGGC TCTTAGNTTC 120
TNTNCTCCAG ATTCTTGTTA TNNNATN 147

SEQ ID NO:4069

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04798

SEQUENCE DESCRIPTION:

GATCAGAGAA GCAGATATTG ATTGAGACGG ACAAGTCAAC TATGAAGAAT TCGNACAGAT 60
GATGACTGCA AAATGGAAGA CCTACTTTCA ACTCCTTTTT CCCCCCTCTA GAAGAATCAA 120
ATTGAATCTT TTA CTNACCT CTTGCAAA 148

SEQ ID NO:4070

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04799

SEQUENCE DESCRIPTION:

GATCTTTTAC AACTGGTGA CCCTGAGAGA GGAGGGAGGA GGGAACCTGG CGGGGGTGTC 60
TGAGGCCGCA CTGTCAGCTG GCCGGTCCAA GCCTGTGGCT GGAGCTGGGG TCTGTTTACC 120
TAATAAAGTC CCACAGGTGC CTCATTAA 149

SEQ ID NO:4071

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04800

SEQUENCE DESCRIPTION:

GATCCCCTTC AAGTCTCTCT GACCTTTCTT CTGCCCTCCA GCCTGGGTGA CAGAGCTAGA 60
GTCTGTCTCA AATAATAATA ATAATACAAT AAATAAATAA ATAAATAAAT AAATAAATAA 120
ATAAATAAAG TACGCTTTCC ATTAAA 146

SEQ ID NO:4072

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04801

SEQUENCE DESCRIPTION:

GATCTCATAG AGCCCAGTTC TTAGAGTCAA CTAAAGAGTT GATAGGAATT TACTAGGTCC 60
AGGGAGAAAA GGCAGTGGTT GGGGTTACTG GAAATTTTGC TCATTTTCTC TAATGACTGT 120
ATGAATAAAA GTGAACCTTAC TTGAAA 146

SEQ ID NO:4073

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04802

SEQUENCE DESCRIPTION:

GATCTGAACT TACAGACAGT TGCCAAATTT CTCTAGATAA GAAAATAAAG AATAGAGGGA 60
ACCTAACTGG ATAACAAAAA AAAAGGAGAG AGAAAAATGC CATTGCAGTT AAAGGTTATT 120
AAATAAAGCT TAGTGTCAAT GTCAAA 146

SEQ ID NO:4074

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04803

SEQUENCE DESCRIPTION:

GATCAGGAGG GACCACAAGG ACAGGAGAAT TAGCAACGAG AGACTGGCTG GCACCAGTNT 60
TGGGAAAAC TCAAGGTGAG CTCCATTCAT GGTCTATTAA AAGGCCTTN TTGTCATTCA 120
GTGATATGTG NCTGGCCCCT GAGAAA 146

SEQ ID NO:4075

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04804

SEQUENCE DESCRIPTION:

GATCAAAAAA TTATTTTAT TTATCCTAGC TTTACGTGCA TCTCACGGAA ACAGGATACA 60
CGGTGTATAT ATTATNATGC AGTTCGTTGG AACTAGAATT TCAAAAAATT TTAATAAATA 120
TGTTTAATCT GTTGCCTCTG GAAA 144

SEQ ID NO:4076

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04805

SEQUENCE DESCRIPTION:

GATCACTGGG CCTACCTGCA CTGTGGGGCC AAGCCCTGTC TTTTCCCAA GCCCTCAAGC 60
ACACGCATGA ATGTTTCATCC CGACTTGGA GGGGGCTTTT CACCCTTACA AGATGGCAA 120
AGATTCACAT TGCTTTTTTT AAA 143

SEQ ID NO:4077

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04806

SEQUENCE DESCRIPTION:

GATCTGTCAT NNTTTAGCAG TCAAGTGGGA TGGGCATTAT ATAAACAACG TTACAATGTA 60
AGGAAAATCT NTAAGNGAT GGGGAGAGAA AAAGGCAGCT GGTATAATCG GTTACTGCTG 120
CTTAGTTCTA CTTAATTTT NNN 143

SEQ ID NO:4078

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04808

SEQUENCE DESCRIPTION:

GATCTGCCTC TCAGGAAAAA GTACTAACTT GTTCTTTTTC TTCCTGGCTT TCATCAGTTT 60
GTGAGATTTC TCTATTTTTT TTAAATATAA TTTTATTTCT TTCAACAAAT ATAAAATAAA 120
AAACAACCTT GGNNCANTGA AA 142

SEQ ID NO:4079

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04809

SEQUENCE DESCRIPTION:

GATCCTGGCT AACCCTNGCC TATTTAGATT CCTTCCTCTC ACCTGGACCT TCCCATTTC 60
ATCATGCAGA TGGTTTCTTT TTGTAAAGAG TTCCGTTTGC CTTTCAATTT TTAGAGAAAA 120
TAAAGACTGC ATTCATCTCA AA 142

SEQ ID NO:4080
LENGTH:141
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04810
SEQUENCE DESCRIPTION:
GATCTTCTTC TCTCTTGTC ACCTATTAAT TGTTTACAAT ATTTGTTACA TCTTATGCAA 60
AATACTTGAN TGGGCCATGG TGCCTTTTTT CCTTGTNAGT ATTTAATTAA AAATGAATTG 120
TTTGTCAATT GCAATGTTAA A 141

SEQ ID NO:4081
LENGTH:140
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04811
SEQUENCE DESCRIPTION:
GATCCCGTTT TCCCCATGAC AATGTTGTAG TGTCCCCAC CCCCACCCC CAGGCCTTGG 60
TGCCTCTTGT ATCCCTAGTG CTCCATAGTT TGGCATTGTC ACGGTTTCGA AGTCATTAAA 120
CTGGTTAGAC GTGTCTCAA 140

SEQ ID NO:4082
LENGTH:138
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04812
SEQUENCE DESCRIPTION:
GATCTGTGCA GCAAACCACC ATGGCACAGG TTTATCTATG GAACAAACCT GCACATCCTG 60
CACGTGTACC CCTGAAATTA AAGTAAAAAT TGGAAATAAA ACATTAAAA AGAAAAGAAA 120
ACAAACAACA ACAACAAA 138

SEQ ID NO:4083
LENGTH:138
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04813
SEQUENCE DESCRIPTION:
GATCTATCAA AGGAAAAGGA AACTGAGACC GAAAACTTAG GGTCTAAGTT GTTCTAAACC 60
CAGGGTTCTC AAATGTGTTG TACAAAAAGT TTCATGTAAT AAAATTAAGC AAATAAAACA 120
AATGAATAGA GGTCCAAA 138

SEQ ID NO:4084
LENGTH:137
TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS04814

SEQUENCE DESCRIPTION:

GATCACAATG TCATTCCTA ATACAAGGCA GGATATGTGG GAAGAATATG TACAATTATT 60
TGATTAAAT TATTTCCAC TGACCTAAAC TTTCAGTGAT TTGTGGGAAA AATAAATAAA 120
TGTTCTACAC CAAGAAA 137

SEQ ID NO:4085

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04815

SEQUENCE DESCRIPTION:

GATCCACTGC CTCAGCCTCC CAAAGTGCTG GGATTATAGA CATTCATGAT GAATTCTTAT 60
TTTANNNTA ATATAAGCA AATACAATTA TTGTTAGATA ACAATGCACA AAATAAAATT 120
CAAGGGTGAA AAATAAA 137

SEQ ID NO:4086

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04816

SEQUENCE DESCRIPTION:

GATCCATGCC TGTAAGTCAA GCTACTCAGG AGTCCGAGGC ACAAGAATTG CTTGAACCTG 60
GGAGGCAGAG GTCACAGTGA ACCATGTTCT GTCAGTGCAC TACATCCTGG GTGACAGAGC 120
GAGACTCCAT CTCAA 136

SEQ ID NO:4087

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04817

SEQUENCE DESCRIPTION:

GATCTGGTCC CTGTAGCACA GAGGTCCGAA GAACCGCCTT CAGAAAGAGG AGGCATATTT 60
GGAAGTNATG GGAAAGACTT TNTGGACAAG GATGGAGAAC ACTTTGGAAA ATTGCATTGT 120
GCCAAGAGAC AACAA 136

SEQ ID NO:4088

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04818

SEQUENCE DESCRIPTION:

GATCTACAAC ACCTGCCAGT GACCCCTGCC CAAGGCCTAC CCCAGTTCCT AGCACTGCCC 60
CACATGCATG TCTGCCTATG CACTGAAGAG CTCTTGGCCC GGCAGGCCAC CAATAAACCA 120
GTGTGAACCC CCAA 135

SEQ ID NO:4089
LENGTH:133
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04819
SEQUENCE DESCRIPTION:
GATCTGCTGA CAGTGAGTAG TATTTTGTTC TAGGATGTTG TGACTTAGCA AAAATAATAC 60
AGATGTCTTC CCCCTTTTG TAGCTTTGAC AATTTGAATT AGATTTCAAA TAAATCTGA 120
ACAGAAAAC AAA 133

SEQ ID NO:4090
LENGTH:132
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04820
SEQUENCE DESCRIPTION:
GATCCTTACA TATGCCATCC TTCTGTGTCA TTTTGTGGCT GTTCTGTGTT TTTCTTCCTA 60
GTTATTTATT ATTGTTAATA ACTTACTTTT TCTTACATTC TGTGTAAAT AAAATACAAA 120
GCAATCTTCA AA 132

SEQ ID NO:4091
LENGTH:132
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04821
SEQUENCE DESCRIPTION:
GATCAAACAG AGGCATGCTA AGATATATTG GGGCTTGAAG CAAAGGGAAA ACTATTTGTT 60
GCTATATGTT TGATGGGATT TTTTGCCAGT TTAAAAATA CATGTATCAT AAAGTTTACT 120
ATCTCAGCCA AA 132

SEQ ID NO:4092
LENGTH:132
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04822
SEQUENCE DESCRIPTION:
GATCAGTGGG GGAGGGCACC TCAGCAACCT CTGAGTGTGG ACAATAGCTG CTTTCTTCTC 60
TATCCAAGAG CACCAGGCTG TGCTTGGNTC CTTGCTCTCA GAGTCTATAA ATAAAAGAAT 120
ATAATGATTA AA 132

SEQ ID NO:4093
LENGTH:130
TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS04823

SEQUENCE DESCRIPTION:

GATCGGGGGT GGGATGGGAT GGAGTGAGCC CCATCCAGTT AGTTGGACTA GTTTTAAATA 60
AAGGTTTTCC GGTGTGTGT TTTTGAACC ATACTGTTTA GTAAAATAAA TACAATGAAT 120
GTTGAGTAAA 130

SEQ ID NO:4094

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04824

SEQUENCE DESCRIPTION:

GATCACAGAG GGAGGAGCTC TGAGAACAGT CTCCTTCAAC AGCTCGGCCA AGCAGAACTG 60
CTGTACCTCT GACCACTTGT GTTAGGAAAA CTATCGGCTC CCTGTATAAT AAATCAAGCC 120
AGGTCAAA 128

SEQ ID NO:4095

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04826

SEQUENCE DESCRIPTION:

GATCTTTGCC TNTAAGCTTG AATATTTGGC TTAAANTTTG TNCATATGAA TACTGTAAA 60
GGTATATTN ACTACATTTT GAAAGGAAAA AGGTAGTCCT GCTAAAATTG ACATTTAGGG 120
ATANN 126

SEQ ID NO:4096

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04827

SEQUENCE DESCRIPTION:

GATCTGAAAT TCTGAGATAT CAATCTAGGA ATTTCAAAG AACAGATTA TAGAATTTAA 60
AACTTAACAC CNGTCTTGTA TTAAGAGAAG TCAACATTTT AAATAAAACC TTGTTCTTAC 120
CAAA 124

SEQ ID NO:4097

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04828

SEQUENCE DESCRIPTION:

GATCTCAGAA CTGTGCCAAG CAGACACTGG GACAAAGGGA GAATATCTTG CTCCCCTCCT 60
GAGTCAGCCT GGTGTTGCCC TTTATTCCCC TTATGTGCAT ATGATTAAAG AGTTATTTTT 120
AAA 123

SEQ ID NO:4098
LENGTH:122
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04829
SEQUENCE DESCRIPTION:
GATCCTACAA ACAGACATTT TCCACTCGTG TTTCCATAGT TGTTAAGTGT ATCAGATGTG 60
TTGGGCATGT GAATCTCCAA GTGCCTGTNT AATAAATAAA GTATCTTTAT TTCATTCTATA 120
AA 122

SEQ ID NO:4099
LENGTH:121
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04830
SEQUENCE DESCRIPTION:
GATCTTCTCG CCTCAGCCTC CTGAGTAGCT GGAGCTACAG GTGTGAGCTA CCCAGCATGG 60
CTCATTTGAG ATTTCTGAGT AGAGAAGTAA CATGATTAAA CTGGGTATT GAGATTATAA 120
A 121

SEQ ID NO:4100
LENGTH:121
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04831
SEQUENCE DESCRIPTION:
GATCAATCTC TCCCTCAGCT TTCTTTCCTA CTTTTCGAGC TTTGCTGGCT TTAACTGCT 60
TCATTCTTCT GCTTCATTGG TATCCTTTTT TCTTTTGAAA TAAAAACATG AAATACTTAA 120
A 121

SEQ ID NO:4101
LENGTH:121
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04832
SEQUENCE DESCRIPTION:
GATCGACTGA GTCCAGAAAAG TCAAGGCTGC AGAGAGCCAC ATTCACTGCA CTCCAGCATN 60
GNTGNCAGAG GNAGACCCTG TCTCAAAAAA AAAAGAAAAA AGAAAAAGTG ACAATGNCAA 120
A 121

SEQ ID NO:4102
LENGTH:119
TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS04833

SEQUENCE DESCRIPTION:

GATCGGTAGG GGGCCTGCTC CTCGGACTCT GGTTACCTCT AAGGCTGGGA AAGGCCTGGT 60

TGCCCACTGC NTCCNTCCCT GCCCCTCCTT TNATGTCCAT AAAGTGGCGT GAAGTGAAA 119

SEQ ID NO:4103

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04834

SEQUENCE DESCRIPTION:

GATCACCCCTT AAATCNGNGT TGGGAAAATA TCAATTAACCT GGACTCTCTG GTTTGAATTC 60

TCAATATGTA TCTTAATATG AAATAGCTCA TTAAACTTC ATGTGTAACCT ATTAAA 116

SEQ ID NO:4104

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04835

SEQUENCE DESCRIPTION:

GATCTGGGTG GTAGTTACTG GGTGTGTTCT CTTTGTGATA CTCTCTCGAG ATGTACACTT 60

AGGATTTGCA ATCTTTTCTG TAAAATATTT CAATAAAAGA CATTTATTTT TTAAA 115

SEQ ID NO:4105

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04836

SEQUENCE DESCRIPTION:

GATCTTAGCT AAATCTCGGT AGATGTCATT ACAACCTNGA AAATAAATCA CCCTAAGTGA 60

CACAAATTGA AGCATGTACA AATTATACAT AATAAAGTGT TTTTAATAAT TGAAA 115

SEQ ID NO:4106

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04837

SEQUENCE DESCRIPTION:

GATCCTNCAC CTCTTGGNAA TTAAATTTGT TGGTCACTGG GGAAAGCCTG AGTTTGCAAC 60

CAGTTGTAGG GTTCTGTGTG TGTTTTTTTT TTTTTTTTAA AAAAAAANTN NAATN 115

SEQ ID NO:4107

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04838

SEQUENCE DESCRIPTION:

GATCAGACAA GGAATGAAGC AATGNCTGTG GGCTGGGAAA CTGTACCTAC CTCTCTNCCC 60
ACTGCAAATN NCTGGGATAG ACCAAAAGTG AATTTAATTA TGTNTTGGCT GAAGN 115

SEQ ID NO:4108

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04839

SEQUENCE DESCRIPTION:

GATCCCAACT TGAAACAACA GCCAGTGCCT GTGGTAACTT AANNTNTTGT CAAATACTTT 60
TATTGATTGG TTTATATGCC ATTNTTGTTA TAGAAGAATA TGCCTTTTAA AAANN 115

SEQ ID NO:4109

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04840

SEQUENCE DESCRIPTION:

GATCAGCTCC GTGGGACTGA TATTGGTCCA CANCANAACA GGCAGTGCCT CCTTCCCTCT 60
GGGGAATGCA AAAGAAANCA TGGATTAAGN GAGAAGGGAG ACTCTCAGCN TN 112

SEQ ID NO:4110

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04841

SEQUENCE DESCRIPTION:

GATCGCCCAA TAAACATTCC CTTGGATGTA GTCTGAGGCC CCTTAACTCA TCTGTTATCC 60
TGCTAGCTGT AGAAATGTAT CCTGATAAAC ATTAAACACT GTAATCTTAA A 111

SEQ ID NO:4111

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04842

SEQUENCE DESCRIPTION:

GATCGGCATA TGCATATCAA AAACAGCTCC CAGCTCTGTA AGGCATTAGA GTGAAAGCAN 60
ANAATTTTTT AATGAAACAT TTATTTGCCT TCTTTTACTG CAGTGCTNNN N 111

SEQ ID NO:4112

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04843

SEQUENCE DESCRIPTION:

GATCATACTN CTTTATCTAG AGNTTGTCT CAGCTTGCAG AGNTTGAGGA GAAGATAGAC 60
CAGTTACATC AAGAACAAGC TTTTCCTGAC TTAAATATGT TTNCNGAACT N 111

SEQ ID NO:4113

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04844

SEQUENCE DESCRIPTION:

GATCACAGTG CAGATAATTA CCTCACACCT GTTAGGATGG CTTTCACCAA AAAGACAAAA 60
GATACGTGTA GGCAAGGATG TGGAGGAAAG AGAACTCTTG TATACGTAAA 110

SEQ ID NO:4114

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04845

SEQUENCE DESCRIPTION:

GATCTTAGTC CGTTTTTTTT TTATATATTG TAACGTTAAA TGAAAAAAGA ACCCCCCTNN 60
TGTATTATAG TCATGCGGTC TTATGTATGA TAAACAGTTG AATAATTAAA 110

SEQ ID NO:4115

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04846

SEQUENCE DESCRIPTION:

GATCTGGGAC TTCCAGAAAA CAGAACTNTN AAAANACAAG TTTCTTTTGT TTAAACCACC 60
CAATCTNAAG TATTTTTTNA TGGCAGTCCT GGGCAGACTA ATACAATATN 110

SEQ ID NO:4116

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04847

SEQUENCE DESCRIPTION:

GATCTATCAT AAAAAGCAAT GTCTTCTCTG GAATGGGGCT TCAGTTTCCA CATTTACAAT 60
TAGTACATAT TACAATTAGT GATATGAATA AAGGCTGTGA TCCTACAAA 109

SEQ ID NO:4117

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04848

SEQUENCE DESCRIPTION:

GATCAAAACA GGTGACAGTG AAGTGGTTTC GGCCCTGCCA ATCTGATATC GTGTATGTAT 60
GAGAGTGGTC AGCATTTTAC CACTGGTAAC AAGTCCTTN CTGTNCAAA 109

SEQ ID NO:4118

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04850

SEQUENCE DESCRIPTION:

GATCTATATA ATTTATGTAT CACCTTCATT GTAAATTTAG CAGGAAATGC ATCACAATTA 60
TNATTTTTTT TTTTGNACC AGTGAAACAA TAAAGATGCT ATTACCAA 109

SEQ ID NO:4119

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04851

SEQUENCE DESCRIPTION:

GATCATGTTG CTGGCTTTTA TAAACTCTAA GCGAAGGAGG AGCACTGCCT CAGCCTTTGC 60
ACATGGTAAT GAAGCACTGT TTTTAAATAA AAGAGAGAAA CACCAAA 107

SEQ ID NO:4120

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04852

SEQUENCE DESCRIPTION:

GATCCGTGAG GGCCTGANTT GGACTGGACC CACTGCTGAT TCCCTGCACC TAGCACAGTG 60
CTTGCCACAA AGTGGGCTCT CAATAAATAT TATTTGTCCA AGGAAGGAAT GAATGAAA 118

SEQ ID NO:4121

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04853

SEQUENCE DESCRIPTION:

GATCGTCTGA GCCCCNCGGG CACTGGGTGG GGCAGAGCAC GAGTTATTTA AAACAGTTAC 60
ACTGCAGGT TTCGCCAAT AAAGGTGGAC TGACATTCCC TCTTCAA 108

SEQ ID NO:4122

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04854

SEQUENCE DESCRIPTION:

GATCTTTTAT ACTCAGNTTN AAACACTTTA CTTGGGTTTA CCAAGCCTCA ACTGGCATAC 60
CATAAACANG CCACANGGAC CGTTCCTGCA GGCCCAACCC ACAGGGN 107

SEQ ID NO:4123

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04855

SEQUENCE DESCRIPTION:

GATCCGGAAC CCACTTTTT ATTCACTCCC CATCGTCGTT TGGCCNTTCC ATCNNTCTTT 60
NTCTTTCCT CTGCCATCCG TGACACTGAT AGTTNGTCAT ATAAATN 107

SEQ ID NO:4124

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04856

SEQUENCE DESCRIPTION:

GATCTCCAAT CTCCTCGGTT GCAACACCTG AATAAAGCCT TCTTCCCTCA CAATACTTGN 60
NNNCTCAGTG ATTGGCTTAC TGTGCAGTGA GCAACCTAGA CCAANN 106

SEQ ID NO:4125

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04859

SEQUENCE DESCRIPTION:

GATCAAAATC ACGTTTGTAG TATCATATCA AAAATTCTAA CCTGTTTACA TTGTTTNNAT 60
GTTTCATGTTCTATGTTATT AAAATATTAT TTTGTACTTA AA 102

SEQ ID NO:4126

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04860

SEQUENCE DESCRIPTION:

GATCTACGGC AATGTGAATC ATTCAGATGT TTACAATAAA AAACACCACA TGAGTAAATG 60
AATTCATAA TGTTAATGTT AAACCTCATG GAAAGNNNNN N 101

SEQ ID NO:4127

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04861

SEQUENCE DESCRIPTION:

GATCCCCCT CAGGACAAAT CTACTCCAGC CACGATGAGA AGTGGGTGAG CCAGGGTCTG 60
AGTTTCACAT TTGAACCAAA TAAATGCTG TCAAGAGAAA 100

SEQ ID NO:4128

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04862

SEQUENCE DESCRIPTION:

GATCATGCCA TTGCACTGCA CCTGGGCAAC AAGAGTGAAA CTCCGTCTTA AAAAATATAA 60
GAAATAAAAA AATAAAAACC TGTCCCAGA CTGGAAA 97

SEQ ID NO:4129

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04863

SEQUENCE DESCRIPTION:

GATCCTGAGC TAGGAGAGTA CATTTTGCAG ACCTTTGGTT TCCATATTAA GAAATTCAGA 60
TTTTNATGTA CAATAAAGAA GTTCTGGAAT TCTCAAA 97

SEQ ID NO:4130

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04864

SEQUENCE DESCRIPTION:

GATCTCTNTN CAGCCCTAAA GCTCCTTGGT TCTGTAATTC CACCAATAGC CCATTTCAAA 60
AATAATTCTA CAGTAATCAG TGGGACTCCT GTTTTN 96

SEQ ID NO:4131

LENGTH:95

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04865

SEQUENCE DESCRIPTION:

GATCACACCA CTGCACTCAA GCCTTGGCAT CAGAGTGAGA CTCTGTCTCA GTAAAAAAA 60
AATAAATAAA TAAAAATGTT TAATTAACCA TGAAA 95

SEQ ID NO:4132

LENGTH:95

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04866

SEQUENCE DESCRIPTION:

GATCGTAGGG CATCAGAAAA AAAAAAGAA ATAGAGAGAG TAAAAGAGAA GCAACAGAAA 60
GAACTCAATA AACAAAAACA GATTGAAAAG GTAAA 95

SEQ ID NO:4133

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04867

SEQUENCE DESCRIPTION:

GATCTTTATT GTTCCTCACC CCATTTTCCT CTTGTGTAT GTACTTCCC CACCCCCTT 60
TTTTTAAGTA AAATGTAAAT TCAATCTGCT CTAAGAAA 98

SEQ ID NO:4134

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04868

SEQUENCE DESCRIPTION:

GATCTAATAA GTATTGGAAT GCTTCCTATT TGCTGATAGA AGTACCAAAT AGTATTATTG 60
AAGTCTACA AAGACTTTTT GTTGAGAACA CAAA 94

SEQ ID NO:4135

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04869

SEQUENCE DESCRIPTION:

GATCGAGGTA AGAGGGACTT TNTTAAAGGC CTAGTCTATG GGATGGGGCG GCGGAGGGAA 60
TTTTTTGAGA AATAAAATGA AGCTGCAGTG TAAA 94

SEQ ID NO:4136

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04870

SEQUENCE DESCRIPTION:

GATCACACCG CAGACATTTA GATTTTTATA CCCAAGGCAC TTAAAAAAA TGTTTTATAA 60
ATAGAGAATA AATTGAATC TTGTTCCATA AA 92

SEQ ID NO:4137

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04872

SEQUENCE DESCRIPTION:

GATCTTTACT GATGCACTCA TGACAAGTAC CCAATGTATT TTAGCTATTT TAGTAGTATT 60
TGTTCAATAA ATACGCAAGC TGTAAGGTAA A 91

SEQ ID NO:4138

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04873

SEQUENCE DESCRIPTION:

GATCTGCTTT TCTGCATGTT TGTCTGTGTG TCTGCGTTGT GTGTGATTTT CATGGAAAAA 60
TAAATGCAA ATGCACTCAT CACAACTAA A 91

SEQ ID NO:4139

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04874

SEQUENCE DESCRIPTION:

GATCAAAAAA AATAAATCAC AATGGTATTT AGAAAATATT TTCACTGAA GGCTAACAAA 60
ACACTACATA TTAAAATTAT AAAATGCAAA 90

SEQ ID NO:4140

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04875

SEQUENCE DESCRIPTION:

GATCTTTTGA TGTGCACTAA TGCCATTATT GGTAATGCCG GTTATTGGTG AATACAGCAT 60
AGTTAAATAA ACTGTTACAG TAAATCTAAA 90

SEQ ID NO:4141

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04877

SEQUENCE DESCRIPTION:

GATCTAGGGC AAACCTGTCC AACTGTTGGC CCATGGAACA GCTTTGAATG CAGCCCAACA 60
CAAATCTATA AATTTNCTTA AACATTAAA 89

SEQ ID NO:4142

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04878

SEQUENCE DESCRIPTION:

GATCAGTCTC ATGGGCCATC TCTCCTCAG ATGTAAATAA TATCTGGTTA AGTGTATAT 60
GGAATAAAGT GGACATTTTA AACTAAA 88

SEQ ID NO:4143

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04879

SEQUENCE DESCRIPTION:

GATCTCAGTG ATGTTTGAAC CTTCTGTGTA ACTTTTATT AAGTCTTGT ATCTCTGAC 60
TGATTAATAA AGAAGAGAAA CACGTAAA 88

SEQ ID NO:4144

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04881

SEQUENCE DESCRIPTION:

GATCTTTATT GGTGACCTTT TGTAAGACAT TAGTTTGAGG TACTACCTAT GTACTTGAAA 60
ATAATAAAGT GGCATTTCTT TATGAAA 87

SEQ ID NO:4145

LENGTH:86

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04882

SEQUENCE DESCRIPTION:

GATCCACTTT GTACTCTAC CAGTAGGAAC GGTCTTCTAA CAGAGAAGAT TATAGCAAAA 60
AATAAAATCT CTTCTTAATT CCCAAA 86

SEQ ID NO:4146

LENGTH:86

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04883

SEQUENCE DESCRIPTION:

GATCCAAAGT CCAGCTCTCT CACTGAAGCC TTATCTTTCG GAAAGCTTCC AACAGTAACT 60
CAGGAATTNA GCTTACTTGC TTAAAA 86

SEQ ID NO:4147

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04884

SEQUENCE DESCRIPTION:

GATCTAAAGA AGAAGGTTCA GTTTTCAAAC AGAATTTAGA GAAAATATAA AGAAATAATT 60
TCTTGTCTCA AAAGGCCAAA GTAAA 85

SEQ ID NO:4148

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04885

SEQUENCE DESCRIPTION:

GATCCAGCTG TGCCTAAAGC CTGCCCTACC TCCGGACTTT AAAGTTTTGT GAGCCAATAA 60
AGTCCCTTTC TTGTTTAAGA TAAA 84

SEQ ID NO:4149

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04886

SEQUENCE DESCRIPTION:

GATCTGAAAA GGCATTAATT TATGTACTAA TTCTATAAAC ATGTATTAAT AATTGCAGTA 60
TTATTAAATA CAGATGGACT CAAA 84

SEQ ID NO:4150

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04887

SEQUENCE DESCRIPTION:

GATCAGGCCC CCCAACTCTC CAGAACAGGC TACAAACATG CAAATTAGAA TTCTTTTAAT 60
ATAAAAAAAA GTACTAAAAT AAA 83

SEQ ID NO:4151

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04888

SEQUENCE DESCRIPTION:

GATCAGAGGG NAGTACAGAA NCCCTGAACT AAAGCNTTAA GTACATACCA TACAGCAAAT 60
AAATGGTAGC AAAACATTCT AAA 83

SEQ ID NO:4152

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04889

SEQUENCE DESCRIPTION:

GATCTAAAT TTGTAATATT TTTGTCATGA ACTGTACTAC TCCTAATTAT TGTAATGTAA 60
TAAAAATAGT TACAGTNACT AAA 83

SEQ ID NO:4153

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04890

SEQUENCE DESCRIPTION:

GATCACATGG TTCACTACCA AATNACCCTC AAATAAGCCA GATGAAAATT TGAAGAAAAA 60
GGTCACCCAG TTCTCTGGAA A 81

SEQ ID NO:4154

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04891

SEQUENCE DESCRIPTION:

GATCAGAGCG TAGTTTTAAN TGTATTTTGG ATACACTTGT GAAATATTTT ATAGAAATAA 60
AAATTTTAC TTAGGAGCAA A 81

SEQ ID NO:4155

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04892

SEQUENCE DESCRIPTION:

GATCCTTCCT CCCACCCTAN GCCTTCCTTT CCTCTTTCCT CCTCACTCTC CCCGTCATGC 60
TCCCTCTGCC CNGNCCTCAA A 81

SEQ ID NO:4156

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04893

SEQUENCE DESCRIPTION:

GATCCAAANT AGTAACNTT TNTNATGAAC TGTACTACTC CTAATTATTG TAATGTAATA 60
AAAATAGTTA CAGTGACAAA 80

SEQ ID NO:4157

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04894
SEQUENCE DESCRIPTION:
GATCATTAGT CAATTGCTTT AATTATAAGC CCTGTTTTTT TTAAATCTA AAAACTAATA 60
AACATCTATA AGAATTAAA 79

SEQ ID NO:4158
LENGTH:79
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04895
SEQUENCE DESCRIPTION:
GATCNACTGT CAAAAAGAAG GGTTCAGTA AAATAAATG AGAGCAATTA TATATATAAA 60
TATATATCAT ACACAGAAA 79

SEQ ID NO:4159
LENGTH:76
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04897
SEQUENCE DESCRIPTION:
GATCACCTGA ATTCTGGAGG TTGAGGCTGC ACCACTACAT TCCAGCCTGG GAGATAGAGT 60
GAGAGCCTGT CTAAA 76

SEQ ID NO:4160
LENGTH:76
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04898
SEQUENCE DESCRIPTION:
GATCCCAAAT NTTCCACAA GCTTTATTC AAAAATAATT TTATTTAATA GGTATTAAAT 60
AATGTATAGA AGGAAA 76

SEQ ID NO:4161
LENGTH:74
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04900
SEQUENCE DESCRIPTION:
GATCTTCCTG TTTCAGTCCC CAAGGTGTTG GGATTATGGG CATGAACTGC TGCACCCAGC 60
CCTTTATACT CAAA 74

SEQ ID NO:4162
LENGTH:73
TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS04902

SEQUENCE DESCRIPTION:

GATCACTGGT ATGTAGATAA TAAAATGTGA AAATAAAAAT TTAAAAATAA AACAAAAATT 60
ATGTGATAAT AAA 73

SEQ ID NO:4163

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04903

SEQUENCE DESCRIPTION:

GATCGTGCAA CTGCACTCCG GCTTGGGCTA CAGAGTGAGA CTCCATCAGA AAGAAAAGAA 60
GAGAGAGATG AAA 73

SEQ ID NO:4164

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04904

SEQUENCE DESCRIPTION:

GATCAGCATG TAAAGTGTCT GCGTG TAGT AGGCTCTTAA TAAACACTGG CTGAATATGA 60
ATTGGAATGA TAAA 74

SEQ ID NO:4165

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04905

SEQUENCE DESCRIPTION:

GATCTCAACT CGTGGCACTA ACTTGGA AAA GGGTTGATTT AAAATAAAAG GGAAGACTAT 60
TTTACAAGCA AA 72

SEQ ID NO:4166

LENGTH:70

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04907

SEQUENCE DESCRIPTION:

GATCCTAAAC AGATGCATTG TTGCTTTTCT GTGCTGTCTC TGCAGATTAA AACATAATGA 60
TTACTATAA 70

SEQ ID NO:4167

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

01322

CLONE:HUMGS04908

SEQUENCE DESCRIPTION:

GATCTATTAT GCCTTTTAC AAAAAAATG GCTGTAAATN ATTGTAAATA TTAAAGGAAC 60
TTTCCTTACT TCCTTCCTT TCTCAGGCTT TTTTGACTG TTCCTTCCC TACCAACTCA 120
GGCCTTCTTA TTAAA 135

SEQ ID NO:4168

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04909

SEQUENCE DESCRIPTION:

GATCTCCCTG GAGGTTTCAT AGCAAGGTTT GACTTGATGA ATTAATTAAT AAAGCTAAAT 60
ATCCTGAAA 69

SEQ ID NO:4169

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04910

SEQUENCE DESCRIPTION:

GATCACCCAC GGGGAGGAGA AGGAGGAGTG AGACCCAGCC GGGTCAATAA ACCTGGACGC 60
TTGGAAA 67

SEQ ID NO:4170

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04912

SEQUENCE DESCRIPTION:

GATCTGCTTA TAAATAAACT TAACAAATAC ACTATGGAGA TTAAAAACAA AATACCACCC 60
ACAAA 65

SEQ ID NO:4171

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04913

SEQUENCE DESCRIPTION:

GATCTGTTTC TCTAGAAAAA AAGTCCATCT CTGGCTTTAA TAAAATTATG CATCAGAAAT 60
CAAA 64

SEQ ID NO:4172

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear
CLONE:HUMGS04914
SEQUENCE DESCRIPTION:
GATCTCATGC TNAGCAGAGC AAAAATTGTA AAATATTTTG ATTAAAAATC TAGGGACCTT 60
TATGTCCTAT TTGAAA 76

SEQ ID NO:4173
LENGTH:63
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04915
SEQUENCE DESCRIPTION:
GATCAGGAAG TGGCTTTGTG TCTTCCCACA TGTATGTATA AATAAAGTGT TCTTTTAAGC 60
AAA 63

SEQ ID NO:4174
LENGTH:63
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04916
SEQUENCE DESCRIPTION:
GATCCTCATT TTTTCCCATT GTAAAATTGG GCTAATAAAA GATGCTACCT ACTGACTATT 60
AAA 63

SEQ ID NO:4175
LENGTH:62
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04917
SEQUENCE DESCRIPTION:
GATCACGTA CTGCACTCCA GCACTCCAGC GCAGGCAACA GAGGGAGACT CTTTGTCTCA 60
AA 62

SEQ ID NO:4176
LENGTH:62
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04918
SEQUENCE DESCRIPTION:
GATCCTGAAT TTCCAGCCA ACAGAACCAA GTGCTAAATA AACTCTTTT TAATAAGTTA 60
AA 62

SEQ ID NO:4177
LENGTH:62
TYPE:nucleic acid

TOPOLOGY:linear
CLONE:HUMGS04919
SEQUENCE DESCRIPTION:
GATCAAAACT CTGTTCTCAA AAATAAATAA AAAATAAAAA ACAAACAAC AACAACAACA 60
AA 62

SEQ ID NO:4178
LENGTH:61
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04920
SEQUENCE DESCRIPTION:
GATCACGCCA CTGCATTCCA GCCTGGGAGA CAGAGTGAGA AATAAATAAC TGTAATGTAA 60
A 61

SEQ ID NO:4179
LENGTH:60
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04921
SEQUENCE DESCRIPTION:
GATCCAAGCA AACTACTTTA AGCAAATATT TGTAATAAATA AAAACGGAGG ACCGCTCAAA 60

SEQ ID NO:4180
LENGTH:60
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04922
SEQUENCE DESCRIPTION:
GATCTAACAG TTCTCCAATA AAATAGTTCT CATTCCAGAG AGCAGATGAA TATATTTAAA 60

SEQ ID NO:4181
LENGTH:59
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04923
SEQUENCE DESCRIPTION:
GATCTATGAC TGTACTACAC TCCAGCCTGG TCAACAAAGC AAGACCATAT CTCTTTAAA 59

SEQ ID NO:4182
LENGTH:59
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04924
SEQUENCE DESCRIPTION:

GATCCAAGTA TTTNATCTGT GTTGTCTCTC TAAACCCAAA TAAATGTGTA AATGTGAAA 59

SEQ ID NO:4183

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04925

SEQUENCE DESCRIPTION:

GATCCAATAC ACACATANCT TACAACTATC ACAAATTCCT ATTAAATATT AAAAGTAAA 59

SEQ ID NO:4184

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04926

SEQUENCE DESCRIPTION:

GATCTCAAAN NGAAATCTTA TACCAGTGAC AACTGTATTA GAATATATCT GTTCTTAAA 59

SEQ ID NO:4185

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04927

SEQUENCE DESCRIPTION:

GATCTCATAT TAATATTTTA ATATTTCTTT TCAAAATAAA ACAGAAAAGC AAGTAAA 57

SEQ ID NO:4186

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04928

SEQUENCE DESCRIPTION:

GATCTGTGTG TTCTTTCAAA GAGAAGTTAT GTCTAATTAA AATGTGTAAC GGACAAA 57

SEQ ID NO:4187

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04929

SEQUENCE DESCRIPTION:

GATCCGNGAG AGAACGACCA CAATTTAAAC ACATCAATAA ATACTTTAAC TTCCAAA 57

SEQ ID NO:4188

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear
CLONE:HUMGS04930
SEQUENCE DESCRIPTION:
GATCAAGAAG GACTACCTGT CATGTGAGAC CATCACTAAG AAACCATTG CTGAAA 56

SEQ ID NO:4189
LENGTH:52
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04940
SEQUENCE DESCRIPTION:
GATCCCACTT CGGTCTGTAA ATTCCCTCAA TAAATCACCC AATATTGACA AA 52

SEQ ID NO:4190
LENGTH:51
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04945
SEQUENCE DESCRIPTION:
GATCCCCAAA GCTTAAAATA TCGACTATTT AGAGTGAGAC TCCATCACAA A 51

SEQ ID NO:4191
LENGTH:51
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04947
SEQUENCE DESCRIPTION:
GATCAGCCAN GCATTCCAGC CTGGTGACAG AGCGAGACTC TGTCTCNGAA A 51

SEQ ID NO:4192
LENGTH:56
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04948
SEQUENCE DESCRIPTION:
GATCTTGTTT GTTGAGGGAG ATGGGACTAT AATAAAATTG AATGCTGAAG TTGAAA 56

SEQ ID NO:4193
LENGTH:50
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04950
SEQUENCE DESCRIPTION:
GATCGGCCA CTGCGTTACA GCCTGGCGAT AATGCAGGAC TCAGTCCAAA 50

SEQ ID NO:4194

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04965

SEQUENCE DESCRIPTION:

GATCTGTCTT GTAAACCACA TTCTTGACAA CTATTTGCTT TTGAGTAGTT TGTATTTTAA 60
TATGTGACTT TNGTCTTGAA AAGTAGTAAA GCCATAGACT TGTGCAAAAC AAA 113

SEQ ID NO:4195

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04985

SEQUENCE DESCRIPTION:

GATCATTATG CAATAAAGCT GCTAAAGTNA CATTTGTGGT TGATACTCAA GCCTTGTACA 60
AGCACATATN ATGTAGACAT TTNAAATGT NAAGCTTTAA CAGGAATAGG ATAGCTGTTT 120
CAAACCTTGT GCAATTGTAA ATAAATTGTT TAGCTGTGTT TCTTTCATTT TNAATAAAAA 180
ATTAAAAAGA AA 192

SEQ ID NO:4196

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04986

SEQUENCE DESCRIPTION:

GATCAATTG TAATTGCTTA CATTTTTACA ATAAATAATC TGTACGTAAA 50

SEQ ID NO:4197

LENGTH:282

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04987

SEQUENCE DESCRIPTION:

GATCTTTCTT TGGCAACCAC TTTTTACTGT CGCCATAGTT CTTCTTTTC TAGAATGTCA 60
TATTGGAATC ATATAGTATG TAGCCTTTTC AGACTGGCTT CTTTCACTTA ATAATATGCA 120
ATTAAGGTTC CTCCATGTCA TTTTCATGGCT TAATAGTGCA TTTATTTTGA GCACTGAATA 180
ATACTCCATT GTCTAGATGA ATAGTTTATC CATTCACCTA TTGAAAGACT TCTTGGTGGT 240
TTCCAAGTTT TGGCAATTAT GAATAAAGCT GTTGTAACA AA 282

SEQ ID NO:4198

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04988

SEQUENCE DESCRIPTION:

GATCTTTTCA GTCAAAAATC TAAGATGATT TATTTTGTAT CACTTTGTTA AAAGCTGAAT 60
 ATTGTAACT ACAGTTAATA TTAACACTGT ATTTATACTT TCTCAAATA CATCCGCCCC 120
 ACCACTTCTG GTTGCCTCTG TTGACTATTA ATCCAGATGT AAACAACCAG ATGTTTTTTT 180
 CTAAC TTGTA CAAACTGACG TGTGTCAACT ATCATGGAAG GAAAAAATG TACAGATTAA 240
 AATTATTCAG NGTTAAA 257

SEQ ID NO:4199

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04989

SEQUENCE DESCRIPTION:

GATCCAGNG TTGACTATAA CCAGATTTAC TCTTTGCTTA CTAGGNTTTC CATNNTCACC 60
 ATTGGATGAA CCNCTGGTTT AGCCACAGTT GTGAAAATAA ATGGAAGTTG GTTGATTGTC 120
 TAGAAAGTGA AA 132

SEQ ID NO:4200

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04990

SEQUENCE DESCRIPTION:

GATCCGCATC CAAGCTTAAC CAAGGCTCCA ATAAACGTGC TAGGAAGCAA A 51

SEQ ID NO:4201

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04991

SEQUENCE DESCRIPTION:

GATCAGTCGC TGA CTCTTA GATGAACCAG GAGCCTGCAT GCTACAGCCC ACCTGCCAAA 60
 TCTTGCCCCC ACCTGCTTTT TAAAATAAAG TTTTATTGGA ACATGAAA 108

SEQ ID NO:4202

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04992

SEQUENCE DESCRIPTION:

GATCTTTGCT CTGTTTCCAG TGGGGTTTGA AGCAGAGTTC AGGGAACCCCT GCCCAAGGTC 60
 CTCCTGTTCA GACATTCTTA TGTTGAATAA AGTATGTTTG ACTTCCCCGG AAA 113

SEQ ID NO:4203

LENGTH:471

01329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04993

SEQUENCE DESCRIPTION:

GATCCACCT CAAATTAGCT TGATTGCAAA ACAGATATTG GAACATGGAG CTGAGAAGAA 60
GATGGTCTGG GCTTCAGGCA CAGCTGGGTC CAGGGACTCA GACCNNNTTG TCTCCATCTA 120
TCTNCTGTGT TTTNCTGTAG GAGGTGGCCT CACTTTCCCC TAGTTCAAAA GGGCTTACTC 180
CATATGATGG GGGGAAGGAA GACAGGNCCA TGAACAGCCC TAGACTTCCA TCAGCCCACC 240
TGGGAAGCCC TCACAGGAAA ATNAGTCTCA TTCCTAGTAC ATGAAATCTC AGGGGAGGGA 300
ACTCCGATTT GGCCACCTTC AGTNATGTGC CCNGTCCCTN GGGGCCAAAT CCNCTTTTGG 360
GTTGGTGGGG GCGGGTTTCA AGTGATTGGG NAAATNGCCA ACCNAAAGTT CANGTTNGAA 420
GTTGGAGNAA NGGGGAANTT TTNCCCAAAA AGAAANGGNA AGGTTTGNTA N 471

SEQ ID NO:4204

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04994

SEQUENCE DESCRIPTION:

GATCAGGAAT GGGTGATTGG AGATTATTAG ATTCTAGGTT AACTTCTACC ACTTTACCCT 60
AATACATAAA ACTTTTTCCT AAATAAATGA TGGAAGGAAT AATACTTGGT TACCTGGCAT 120
TATTTTTCAG TAAGAAAAAA GCTTTACTAA CCACTACATT TATGGAAATT TGAGGGGTA 180
AGTATTTTAT AGGTCATAAA AAACACCATA ATATAACGAA TCTCATTTNC TTAAATGTG 240
AATTAAATCC TAACAGTCAT CTTTATAAAA TGACCATAGG CTAAANTCTT ACGTGTAAGT 300
NCTACTACAN TAAATANTTT CTGGAAACCT TTTATAAA 338

SEQ ID NO:4205

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04997

SEQUENCE DESCRIPTION:

GATCACCTTC CAGACCACAG CAGATGTGGG ACACACAGCC TCCTGACTCC AGGAAGAGCC 60
AGANCTGTGC AGGGAGGAAG GGGTGAGAGG GGGGCCCCCA CACCTAGACT CAGTAAGGAA 120
GTCGGGTTNG ACCTTAACAT CTNCATTGGA CAACTCCACC CNTNCCTTGG CCTTGCCCCT 180
GCCCGNNTAC ACTCCTACGT NTCCANGGGC TTNGGCCGTG ACTTAGGNAG AGGAGTN 237

SEQ ID NO:4206

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04998

SEQUENCE DESCRIPTION:

GATCATCCGC AGNCTCATGT TAAAAGGATT TTAGCTCACT AAAAGTGTA TAATGGAAAT 60
GTGGAAAATA TCGTAGGTAA AAGAACTAC CTCATGCTCT GAAGGTTTTG TAGAAGCACA 120

ATTAAACATC TAAATGGCT TTGTACACC AGAGCCATCT GGTGTGANGA ACTCTATATT 180
TGTATGTTGA GAGGGCATGG ANTAATTGTA TTTNGCTGGC AGTAGACACA TTCTTTATTA 240
TTTGCAGATT CCTCATCAAA TCTGTANTTA TGCACAGTTT CTGTTATCAT TAAAACAAAG 300
GAATCCNGTT AAA 313

SEQ ID NO:4207

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04999

SEQUENCE DESCRIPTION:

GATCACATCT NTNTGAAGCC AAAGCCCCGT GGTGCCCCAT GAGAAGTGTC CTTTTTCATT 60
TTCACCCAAA TGAAGTGTGA ACGTGATGTT TTCGGATGCA AACTCAGCTC AGGNATTCAT 120
TTTGTNTCTT AGTTTTATAT GCATCCTTAT TTNTAATACA CCTGCTTCAC GTCCCTATGT 180
TNGGAAGTCC ATATTTGTNT GCTTTTNTTG CAGCATCATT GCCTNTACAA TACTGNCCGG 240
TGGACAAANT GACAATNGAT ATGTNTTGCT N 271

SEQ ID NO:4208

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05001

SEQUENCE DESCRIPTION:

GATCGCACTG TGGGCCGGGG CCCTGGAGGG CTGCTCTGTG TTAATAAGAT TGTAAGGTTT 60
GCCCTCCTCA CCTGTTGCCG GCATGCGGGT AGTATTAGCC ACCCCCCTCC ATCTGTTCCC 120
AGCACCGGAG AAGGGGGTGC TCAGGTGGAG GTGTGGGGTA TGCACCTGAG CTCCTGCTTC 180
GCGCCTGCTG CTCTGCCCCA ACGCGACCGC TGCCCGGCTG CCCAGAGGCT GGATGCCTGC 240
CGGTCCCCGA GCAAGCCTGG GAACTCAGGA AAATTCACAG GACTTGGGAG ATTCTAAATC 300
TTAAGTGCAA TTATTTTAA TAAAAGGGGT ATTTGGAATC AGAAA 345

SEQ ID NO:4209

LENGTH:406

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05002

SEQUENCE DESCRIPTION:

GATCTTACTT TCATAATTCT TTGATTCTAG CTTGCAGAGT CAAGACGNAA AGNTAACTCA 60
TGGGATGGAC AAAGTGAAG ATGTAAAATA AGTAAGGCTT TNTGGGCCAA AAAGCCTCTT 120
CTTACAGAAA ATCAAATTTT AAAAGAACAT TGACCTCAAA ACAATAAAAC TGTCCTGGTT 180
ATGCAATAGA AATAGCTATA TAAATGGAAT CATATCCTTA ATGAACACCT CCTGTGGCTA 240
CCCAACTTTT CACACATCTT ACTGATTATA GGCCTTGCTG TGAATGCTTT CTTGCTCTAT 300
CTGAAGTATT CCCACCAGAG TTGTTTCCAA CNTTATTTC TATATTATGA AAAATGANGT 360
TTTTTTAACA TTGTAACAAA GTATTTGNAA GGTAATGTAT ACTGTN 406

SEQ ID NO:4210

01331

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05003

SEQUENCE DESCRIPTION:

GATCTAAAAA AANNTAAATT ACATTAGTAA CACAACATAA GAAAAAGACA GGGACAAAAA 60
CAAAAAA TAAA 74

SEQ ID NO:4211

LENGTH:230

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05004

SEQUENCE DESCRIPTION:

GATCCTATGT GGAAGGGCTG TTTTAAAGA AAAAATTTT GGTAACAGT ATTGTGTAA 60
ATTGCTTTT GTATACCAAT ATATGCATGT TTTGTGCATG AGTAGTACTT GTGTTGATAC 120
TCCTGTTGAT GTTAAATTAC TATATAATAT AANCAGTATG TGTTTTTATA TATCATTGTG 180
TAAATTTAAT ATAACATATG CNGTAATAAN CCATTNGTNT TACGGGCAAA 230

SEQ ID NO:4212

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05005

SEQUENCE DESCRIPTION:

GATCTCAATC AAGTTAGCAT GCTTNCTCCA GCTGCCCTAT NACCTGCCAG CTCATCACAA 60
AGAACCACGG CCACCCAGGT CATGGCAAAC TCTGCTGGAC TTAAGTTCAT CAATGTAGTG 120
GGCTCTNTT GTGGGGCCCA GGCTTTGATG AGTNGGNNN N 161

SEQ ID NO:4213

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05006

SEQUENCE DESCRIPTION:

GATCGAGACC ATCCTGGCCA ACATGGTGAA ACCCGTCTC TACTAAAGAT AAAAAATTA 60
GCTGGACATG GTGGCGGGCG CCTGTNTTCC CAGCTACTGG GGAGGCTGAG GCAGGAGAAT 120
GGCTTNGAGG CAGTAGAACT GCTTGAACCC TGGAGGCGGA GGTTACAGTT ATCCGAGGTT 180
GTGTCATTGC ACTCCAGCCT GGGGAACAGA GCGAGACTCC ATCTCAAAAA AAATAAAAAA 240
CTTCAGCTTT TGCATGAAA 259

SEQ ID NO:4214

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

01332

CLONE:HUMGS05007

SEQUENCE DESCRIPTION:

GATCATGCTT TAAGGTTTAT GTAAAGAAAG TGTACTGATG TTCTTACATT AAAGCTTTAC 60
AAAGATTTAA A 71

SEQ ID NO:4215

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05008

SEQUENCE DESCRIPTION:

GATCTTGGTG GTAGTAGCTG TCTATGATTC TNGCTCAGCA AAGTAAAATA AATGTAAAT 60
ATGAAAA 67

SEQ ID NO:4216

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05009

SEQUENCE DESCRIPTION:

GATCAAATGA AATAATGTAC ATGAAAAGAC ATATATAAAA TGTATAATAC AGACAAAGGG 60
NCCTGTTACA CAGTTGGAAG TCATNCCCTC AGATTTTGGG CCTAGGAAGG TAGGTGATTT 120
AAACTCACTG AAAGCANNNG NNN 143

SEQ ID NO:4217

LENGTH:362

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05010

SEQUENCE DESCRIPTION:

GATCACAGCC ACTGGTCCAT AACCAATTAGG AAAACTCATT GGACAATGGT TGTCAGGTTC 60
CTCCATTGGA GGGAATTGTG TTTCATGATT AGGCACTGTT TCTGCTCCTT AAAAATGACT 120
TTCCAGTCTA TCCTCCACAG CTCTTTGTTC TACACTCTAG GGAATCATT TTTTCCCTC 180
ATCTTCCTTA GTCAC TTGCA AAGGACATTA GAGAATATGC CCTTTTGGT GGATAAATGG 240
GTTCTTCAAC CTGCTTTCTG CCTGTAGAAA ATTAGAGGCC AATAATCTGT TTATATCTTG 300
TAGAATGTCT ATTTTAGCTG GTACCGGTAC TTTGTCAAT AAAGTTCTTT TTAAACTTA 360
AA 362

SEQ ID NO:4218

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05011

SEQUENCE DESCRIPTION:

GATCTGNCAA GAGCACATAT GTGTCAGGGC ACAATTCCCN CTCATAAAAA CCACACAGCC 60

01333

TGGAAATTGG CCCTGGCCCT TCAAGATAGC CTTCTTTAGA ATATNATTG GCTAGAAAGA 120
 TTCTTAAATA TGTGGANTAT GNTTATCCTT AGCTGGAATA TTTNCTCTAC TTCCTGTCTG 180
 CATGCCCAG GCTTCTGAAG CAGCCAATGT CGN 213

SEQ ID NO:4219

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05013

SEQUENCE DESCRIPTION:

GATCACTACA ACANTTTNTT TGCCTCCAAG GTCCTCTGAG GCAGCAGGCT CTGGGGCTTC 60
 TNCTGTCTT TGGAGGGTGT CTTCTGGGTA GAGGGATGGG AAGNAAGGGA CCCTTACCCC 120
 CGGNTCTTCT CCTGACCTGC CAATAAAAT TTATGGTCCA AGGGAGAAA 169

SEQ ID NO:4220

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05014

SEQUENCE DESCRIPTION:

GATCGCGCAG GATTTCAAAA CCGACCTGAG GTTTCANAGC GCANCATCGG TCGCTGCAG 60
 GAGGCTAGCG AAGNANCCTG GTGGGTCTGT TCGAAGATAC CAACCTGTGT GCCATCCACG 120
 CTAAGAGAGT CACCATCATG CCCAAAGACA TCCAGTTGGC TCGCCGGATA CGGGGAGAGA 180
 GAGCTTAAGT GAAGGCAGTT TTTATGGCGT TTTGTAGTAA ATTCTGTAAA ATAAA 235

SEQ ID NO:4221

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05016

SEQUENCE DESCRIPTION:

GATCAAAGTC CTACAGTGGC TGTCACGCAG CCACNAGGTC ATCTCCTTTC ATCCCCACCC 60
 CAAGGCGCTG GCTGTGACTC TGCTTCCTGC ACTGACCCAG AGNCTCTGCC TGTGCATGGC 120
 CAGCTGCGTC TACTCAGGTC CCAAGGGGTT TCTGTTTCTA TTCTTTCCTC AGACTGCTCA 180
 AGAGAAGCAC ATGAAA 196

SEQ ID NO:4222

LENGTH:262

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05018

SEQUENCE DESCRIPTION:

GATCTGCACC AGACTGTTAC CTTCTGGGGG AGATGGAGAT TTGACTGTTT AAAAAGTAA 60
 AACAGCGAGG AGTCTTTCTA GAACTTTTGA AACTAAAAG GATGAAAAA ATTAGCAAAC 120
 CGAAGTTTCT TCAATGACCC CTCGAGAACT TTGGGACCAG TTTCCTATGG GGGACTCAGT 180

TTCAGAGAAC TGAGACAGAA GCTCTTCTGT CGTTATATTC TTCTTTCCTT TTTTGGATT 240
TATTAAATAT TTTCTGTGGA AA 262

SEQ ID NO:4223

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05019

SEQUENCE DESCRIPTION:

GATCCTGCAG TGTCTGTGG GTTCATCTCG GATGGGCGCT GCATAAACAG CCTGCAGGGA 60
ACGTCTGGGA GAACCAGCTT CACAACAGAT ATAATAAGGA AGAAGTTTGA AATATTGCAA 120
GANTTGCAGAA AGTGTGACAC ACAGATACAA AGTGGGCACA TGCTCGTGGG AAAATGTTGC 180
CAATAGACTT GCTTGACTCT GGAGTTACCC CGAACCTTCA ATTTGTTTAA AAAAAAAAAAN 240
GGGCANTTTN TTGNNNGCA NTAAGGTGNC CTGCAAA 277

SEQ ID NO:4224

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05021

SEQUENCE DESCRIPTION:

GATCGCGTCC ACCTTCATCG CTGTGGTGCA AGCCATCGTC CGCACGGCTG GTGGCTGGGC 60
AGCTGCCCTCG GACTCCAGGA AAGGCGGGGA GCCTGCCGGC TACTGAGTGC TCCAGGAGGA 120
CAAGGCTGAC AAGCAATCCA GGGACAAGAT ACTCACCAGG ACCAGGAAGG GGACTCTGGG 180
GGACCGGCTT CCCCTGTNAG CAGCAGAGCA GCACAATAAA TNAGGCCACT GTGCCAGGNT 240
CCAGGTGGCC TNCCTGGNCT GTTTCCCCAA A 271

SEQ ID NO:4225

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05023

SEQUENCE DESCRIPTION:

GATCCACGGA AGACTGTCTAG CAGACTTCAC CAGAAAACCT TCACGCCAGA NGGCAGTCGT 60
GATATATACA AAANGCTGAA AGGAAANCAC TGCCATCCAG GANTACTATC TCCAACNTC 120
CTGTGTTTCA AAANTTAN 138

SEQ ID NO:4226

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05024

SEQUENCE DESCRIPTION:

GATCTGCATT TAAAAATATG GTCTTTGTTT TATATGATTA AATGGTTTGT TTTCATAGAT 60
GAAA 64

01335

SEQ ID NO:4227

LENGTH:296

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05025

SEQUENCE DESCRIPTION:

GATCCCGGCT GTTGGTGAGC AAAGAGCCCA GGCCCTAGA GTGCGCATGT NCAGGCTCCG 60
CTGTTAGANT CACAGCGGTT CAAATCCGGC ATCTGGTCGC TGAGTGGCCT CAGGCAGTGA 120
CCACGCTCCC GGACCCAACC TTCAGCTTGC CCAAAGCAAT AATCTTTCCT AAAGAAGTGC 180
TTGGNTGGGG ATGGTGGCTC ACGCTTGTA ATCCAGTAC TTTGGGAGGC CAAGGCAGTC 240
TGGGCAATAT AGTGAGGCTC CCATCTGTAC TAAAAATAAA AAAGTTAGGC GTGAAA 296

SEQ ID NO:4228

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05026

SEQUENCE DESCRIPTION:

GATCAGACCT CTCATGCTGT GGAGATGAAA AAGCCCTAAA GTTTATGTTT CTAATGTGTC 60
ACAGAATAGG ACGATATGAT TCTACAACAT AATCAACTCC CTATTAAATT CTTAATGAA 120
GATTTTTTTT TAAA 135

SEQ ID NO:4229

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05027

SEQUENCE DESCRIPTION:

GATCCTCTTT CTAGCATGAA TGAAGGATGC CAAGAATGAG AAAAAGCAAG GGGTTTGTCC 60
AGGTGGCCCC TGAATTCTGC GCAAGGNATG GGCCTGGGGG AACTCAAGGG AGGGCCTAAA 120
GCACTTGTA CTTTGAACCG TCTGTCTGGA GGTCAGAGCC TGTTGGAAAG CAGGGGTAGA 180
GGGGAGCCCT GGAAGCAGGG CTTTTCCGGA TGCCTAGGGG TGGGCAGTGC CAGCCCCTCC 240
TCACCACTCT TCCCCTTGCA GTGGAGGAGA GAGCCAGAGT GGATACTATT TTNATTAAA 300
TATATTATTA TATGTTAATA AAAAANTCAT ATCCAAA 337

SEQ ID NO:4230

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05028

SEQUENCE DESCRIPTION:

GATCCTTCGC GAGCGAGTGA ACAAGAGGCG GGTGAAGGAG ATGGTGAAGG AGTTCACACT 60
GCTGTGCCGG GGTCTCCATG GCACAGGGTA CACAGCTGAC TACTGAGGGG TGCCCCCATC 120
CCATCCACCC CTTCTCTTCA TCCTTCCCTA TTCCCAAAGN GTAAACCTGG NCCCTNAAA 179

SEQ ID NO:4231

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05029

SEQUENCE DESCRIPTION:

GATCGCTGGA CGCTATGAGA GGGCGTCCCA GGGCCCAGCC TCCCACAGCC GTTTCAGCAG 60
GGACAGGGGC TGAACAGGCC CTATTCCAGC CCCCTTGCTT CACTCTACCG GACAGACGGC 120
AGCAGTCCCA GCTCTGGTTT CCTTCTCGGT TTATTCTGTT AGAATGAAAT GGTTCACATA 180
AATAAGGGGC ATGAGCCCTT CCTCAAA 207

SEQ ID NO:4232

LENGTH:386

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05030

SEQUENCE DESCRIPTION:

GATCTGAAAT AGTTTTCTTC CACTACATTG TTGAAATCAA TGAAGCAATT AGTTTCTCAT 60
TCAGAAATGT GCACACTAAT ATTTAGTTTT GCTTCTCGT GGATAATATT AAGCNCTTAC 120
TCTGCAGTTT CCTGGAAGTT GTGTCAACTG CAGTGATACT ATTCAGGATG GTGGGAAATC 180
CCCAAAAATA TGTATGTGTG GGCTTGCTTA GATTACTATA TTTCATAGTT AATCTTTTGT 240
CTCTTGCGGT GCTCATGATG TGTGGGGCAC ACGGAAGGCA TTGCTGTAGT CAGTCATTTT 300
GGTTTTCTTC TATAGCCATT TTATTATTTT AGTGTATTAG TTATGAAGAT AATATTNNCT 360
ATTTGTAAAT NGCTACTTTG TATTTN 386

SEQ ID NO:4233

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05031

SEQUENCE DESCRIPTION:

GATCTTCANA TTGCTGTGAT TAATGCATCC AGATTNTTTT CCTAGTATTT CCAGGTTAGA 60
ACCTGTGGAT TGTTTCANTT GCATATAGCT TGGTTTCCAT AACATAGAGC ATTGGTTGAC 120
TGTTTACAGA AGACTCACTC ACCAGGATAA ACATTGCNGT ATGTNACAGT AAAGCTATCT 180
GGAGAGANCA CATAAATGAT TTTGGCATA CATTAGAGAA ACCATTTGTA AAACCTCAAT 240
GNCCACATAA NGCTTATCAG GGGGTCTAGA TTGGTNTTGT NNTATACCAT ATGGGATGAN 300
GNAAANTAGA AATGTCAGTA GAATCATTG AGGGTGCTCT NGCCAGCTGC NGANAN 356

SEQ ID NO:4234

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05033

SEQUENCE DESCRIPTION:

01337

GATCTGCTTT TTTNAAATGT TAAGGACATA TTTTNAAGTT ACTGCTGAGT GAAGAAAGAA 60
CATAGCTCCC CCTCATTTCCC TGCCTAAGAA AGGAGCTTAA AGAAA 105

SEQ ID NO:4235

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05034

SEQUENCE DESCRIPTION:

GATCAGGGCC TTCCTGCCTC CCGCTGGGCA GGTCTGGCCT TGCNCTCTTG GCAGGGCCCC 60
AGCCCTCTA ACCACTCTGC AGCTCACCAT GCAGCTGATG CCAAANTTGT GGTGTCCAGT 120
GTGCAGCAGC CCTGGGAGCC ACTGCCACCT TCAGAGGGGT TCCTTGCTGA GACCCACATT 180
GNTTACCTG GCCCCACCAT GGCTGCTTGC CTGGCCCAAC CTAGCGTTCT GTGCCATGNT 240
AGAGCTTGAG CTGTTGCTCT NCTTCAGGGG AGGAAATAGG GTNGAGAGNG GGAAGAGNNT 300
TNGCTCCTAA GTGTTGCTGC TGTGGCTTTT TTTGCCTTCT GCN 343

SEQ ID NO:4236

LENGTH:370

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05035

SEQUENCE DESCRIPTION:

GATCATTTCA AAACATATTT CCTATGTAAC TGCATTGAGA ACTGCATATG ATTCGCTGAT 60
ATATGTGTTT TTCACATTTG CGAATGGTTC CATTCTCTCT CCTGTACTTT TTCCAGACAC 120
TTTTTTGAGT GGATGATGTT TCGTGAAGTA TACTGTATTT TNACCTNTTT CCTTCCTTAT 180
CACTGACACA AAAAGTAGAT TAAGAGATGG GTTTGACAAG GTTCTTCCCT TTTACATACT 240
GCTGTCTATG TGGCTGTATC TNGTTNTTCC ACTACTGNTA CCACANCTAT ATTATCATGC 300
AAATGCTGTA TTCTTCTGTT GGGTGGAGAN AAAGGATTTC TTGNAGGTTT NGTTTTTAAA 360
ATTNAAAGCN 370

SEQ ID NO:4237

LENGTH:529

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05037

SEQUENCE DESCRIPTION:

GATCTGTTTC GTGCATTGGA AGACCCCACC CAAGCTTGGC AGNCGAGCNN ATTGTATCCT 60
GGGGCTCCCT TCATCTCCAG GGAGTCCNNT CCCC GGCCCT ACCAGCGCCC GCTTGGCTGA 120
GCCCCTACCC CACACCAGGC CGTCCTCCCG GGCCCTCCCT TGGAACCTG CCCTGCCTGA 180
GGGCCCCCTCT GCCCAGCTTG GGCCAGCTG GGCTCTGCCA CCCTACCTGT TCAGTGTCCC 240
GGGCCCCGTTG AGGATGAGGC CGCTAGAGGC CTNAGGATGA GCTGGAAGGA GTGAGAGGGG 300
ACAAAACCCA CCTTGTTGGA GCCTGCAGGG TGGTGCTGGG ACTTAGGCCA GTCCCAGGGG 360
CAATGTATTG GCCTGGAAGG TGGGGTTTGG GATTNNGGGG GCTTGGTGCC AAGCTTTCCT 420
TTTNNANGNT GACCTTTNTT TNGTNCCTNC CCCTTTGGGG NGGGNTNAAA AGNCCCAAGT 480
TTGANANTGG GAAATAAANT TTTTTTGGGC CTCCGGNTTT CCCTTNAAA 529

SEQ ID NO:4238

LENGTH:365

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05039

SEQUENCE DESCRIPTION:

GATCGTTTT TCATTGTAT GCTTCACAAA CTTGGATTG ACAAAGAAAA TGTTTATGNN 60
NGAATTGCGA CAGTGTATTC GCAACTNTCC TCAGTTCAGA TTTGACTGGT TTCTTAAGTC 120
CAGAACTGCA ATGGAGCTCC AGNGGAGATG TAATACCTTA ATTNCTTTGA TTGAAAGAGA 180
AAACATGGAA CTAGAAGAAA AGGAGAAGGC AGAGAAAAAG AAACGAGGAC CAAAGCCTTC 240
ANCACAGAAA CGTAAATGG ATGGCGCACC TGATGGTCGA GGTAGAAAAA NGTGGCTGGA 300
ANCTATGNNT ATGGTTTTNT TTCATAAATC ACTNAGCTTT ANACCNAGTA GTTCCTNTNA 360
NTTTN 365

SEQ ID NO:4239

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05040

SEQUENCE DESCRIPTION:

GATCATTACA ACANTTGTNT GCCTCCAAGT CCTTGAGGCA GCAAGTCTGG GGCTTCTGTN 60
TCNTTTGAGG GTGTCTTCTG GGTAGAGCGA TGGGAAGGAA GGACCCTTAC CCNN 114

SEQ ID NO:4240

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05041

SEQUENCE DESCRIPTION:

GATCATCCGC GGCGGCCGGG CTCGTGGGGC GCCTGGAGTG AGGGTTCTGG TTCCCGCCGG 60
CGAGGATTGT TAAATNAGT CTTCGGAAGN AGACCCCTAG TGACTTCTTA AAGCAAATCA 120
TCGGACGACC AGTTGTGGTA AAATTAAATT CTGGAGTGGA TTATCGAGGG GTCCTGGCTT 180
GCCTGGATGG CTACATGAAT ATAGCCCTGG AGCAGACAGA AGAATATGTA AATGGACAAC 240
TGAAGAATAA GTATGGGGAT GCATTTATCC GAGGAAACAA TGTGTTGTAC ATCAGTACAC 300
AGNAGAGACG GN 312

SEQ ID NO:4241

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05042

SEQUENCE DESCRIPTION:

GATCGGAGTA CANAGTNACA NTTGGAGGGC AGGGGGACTN TAAGGCAAGG AGATTACAGT 60
TGGGAAGGAG GCAGTGGCAG AGGGGTGAGG GACAGGGGCC CTTAAGTCCA GCGAGGAAAG 120

01339

CTCGGTGTGG GCCCGTCTAC GCTCCGTTTG GGGTGACCTG GAACGCCTCT TCTACAGCTC 180
CTNCAGCATC AGCAGCCTCT TGTCAAGTTT TGCCTCGCCC ANTCTATCCC AACCCAAATA 240
AGACACTTTC TTCACGNCAT ATTATCTTTG TCCTTTCTTT TTTAAGAACA TCACAAAACC 300
ATGAAA 306

SEQ ID NO:4242

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05043

SEQUENCE DESCRIPTION:

GATCTTAAAC CCAGTCTTGA CAGACTAGAA GTTAAGTTTA ATACAGAAAA TGTCTGTTC 60
ACTTGAAAGA AAAGACCTAC TTTTAAATG GACACTATCT TGGTCTTTT TTTTAAAGTC 120
ATCTTTTGT TATAAGTGAC CTTTGTCTGG AATGTCTGAA AAGTAGTTAA TGCTTTTNGG 180
TATTGAAGTA ATGGGTAACT AAAATGGACT TCCATAGTAT TGACTGTAGA AGGAGCCTCT 240
ACAATATTGA CTATATATNN NNATAAATA CTGGCAAGGN ACTTAAA 287

SEQ ID NO:4243

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05044

SEQUENCE DESCRIPTION:

GATCTCCACT GTTGGGTGGG TGGGCCCTGC CGGGACCCTG CTTACAGGC AGGCTTTTCC 60
TCCAACCTGT GGCCTGCAG CAGGGCAGGA AGGGGAAACA CAGCTGATGA ACTGTGGTGC 120
CACATGACCC TTGTGGCACA GATGCCACG TATGTGAAAC ACACATGGAC ATGTGTCCCA 180
GCCACAGTGT TATGCTCTGT GGCNGGCTCA CCTTTGCTGA GTCCGGGGT GCAATGGGGG 240
AGGGAGGGAG GGAAAGCTC CTCCTAAATC AAGCATCTT CTGTACTTG ATGTTCAATA 300
AAAGAATAGT TGGCAAGGCT GAAA 324

SEQ ID NO:4244

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05045

SEQUENCE DESCRIPTION:

GATCATTCAT ATGTGTACAT AAAATTTTAA AAATAAAGGG AATTGACTGC TTTGTTAATG 60
AGAAA 65

SEQ ID NO:4245

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05046

SEQUENCE DESCRIPTION:

01340

GATCCAGAGA ATGAATCCCT GACCGCATCA CCTAAACTGT CTTCCAAACA TGAGACAAAG 60
 CTGACTGTTC AACTTGATTG CCCAGCACAT ACCGTCTTGC CAGTTTCTTC TTTTCTCCCA 120
 GTCTCCTGTT CATCCATTCT GTTCTCCCTT GGGGTGGGAA TCTATGATGG AGGTTACTGG 180
 GGAAACAGCT CAGCAGATTT TTGGAGACCA AACCAAAGGT CTCACTAGGA AATTTATCTG 240
 TTTTAAACA TTGCTTCCTT CCTGGCTCTG CTAAATTGAA TGCTCATN 288

SEQ ID NO:4246

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05047

SEQUENCE DESCRIPTION:

GATCTCTGCT CCTAACGATG AAGACTGGGC CTATTCACAG CAGCTCTCTG CCCTCAGTGG 60
 TCAGGCGTGC AATTTTGGTC TGCGCCACAT AACCATTTCTG AAGCTTTTAG GCGTTGGAGA 120
 GGAAGTTGGG GGAGTGTTAG AACTGTTCCC AATTAATGGG AGCTCTGTTG TTGAGCGAGA 180
 AGACGTACCA GCCCATTTGG TGAAAGACAT TCGTAACTAT TTTCAAGTGA GCCCGGAGTA 240
 CTTCTCCATG CTTCTAGTCG GAAAAGACGG AAATGTCAA TCCTGGTATC CTTCCCAAT 300
 GTGGTCCATG GTGATTGTGT ACGATTTAAT TGN 333

SEQ ID NO:4247

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05051

SEQUENCE DESCRIPTION:

GATCCTCCAC AGAGAGGAGG GGACCAATTC TGGACAGACA GATGTTGGGA GGATACAGAG 60
 GAGATGCCAC TTCTACTCA CCACTACCAG CCAGCCTCAG AAGGCCCCAG AGAGACCCTG 120
 CAAGACCACG GAGGGAGCGA CACTTGAATG TAGAATAGGC AGGGGGCCCT GCCCCACCCN 180
 ATCCAGCCAG ACCCCACGNT GACCATGCGT CAGGGGNCTA GAGGTGGAGT TCTTAGCTAT 240
 NCTTGGCTTT NAGAGCCAGC CTGGNTCTGN CCNCTCCNC CATGGGGN 288

SEQ ID NO:4248

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05052

SEQUENCE DESCRIPTION:

GATCTCTAAG TGACCACCAG GGGCTCTGAA CTGCAGCTGA TGTTATCAGC AGGCCATGCA 60
 TCCTGCTGCC AAGGGTGGAC ACGGCTGCAG ACTTCTGGGG GAATTGTCGC CTCCTGCTCT 120
 TTTGTTACTG AGTGAGATAA GGTGTTCAA TAAAGACTTT TATCCCCAAA 170

SEQ ID NO:4249

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05053

SEQUENCE DESCRIPTION:

GATCTACATA GATTTGGAAA CTGTTTTCCT CTGTTTGGT CTCTGGGCA ACATTTTGG 60
CCCAAGTTTG GGCAACATTT GGCCCAAGNT TGGGCATTTT GGCAGTAGCT GTATGGNAGA 120
AAAAGAGTAA GAGGAN 136

SEQ ID NO:4250

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05054

SEQUENCE DESCRIPTION:

GATCNTTTGC TTTAGNGTGT AAAGTNTGTC TCTGAACAGA ATTATTTGTA AAAGTTAGGA 60
GTTCTTTTTT AAATCATTAA AAGAGGCTTG NTGAAGGAAA 100

SEQ ID NO:4251

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05055

SEQUENCE DESCRIPTION:

GATCCTAGAG CCCTTCACTT CGGNTTACTC CCTCTTTTTT GCCTCTNTTT NNTAGTTGGA 60
AGAAATAAAC TCACAAATTA TGGTGCACTA ATTNCCGGG GAAAGTAAAG CCTCAGGAAT 120
GCCACGCCT TTTTCCAAA GCCTTTNTCT CTGAGACCTC TTAAGTTCTA AGATTAAATG 180
CCCCTCGCTG TTTCTCCTCT GAAA 204

SEQ ID NO:4252

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05056

SEQUENCE DESCRIPTION:

GATCAAGGAG CAATTATGAA GGTCTACAAG CAAGANCAAG AGGAAGAATT ATNGAAAAAG 60
TTGGCAAATG NCCCCAGATG GAAGAGATAC AGGAGATGGA TGAAGAATGA AGGGCCTGGG 120
CGGTAAACAT TTGTGGATGA CTGANGATTG ATGGAATGCT ACTATGCCAA ACCTTAATTG 180
TGATATTATT TTCATACTG ANTTATTTTA GAAATGTATC ANTNGACTGC TGCTCAGCAG 240
TAACTAAAAT TCCTCAAGTA TTTGATTAAA CAGATTAATG TCAAANTTTA AACCTTCCCT 300
TAAAACTTTN 310

SEQ ID NO:4253

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05058

SEQUENCE DESCRIPTION:

GATCTAATTG CATTGGTTAA AAGCAGCTAA CCAGGTCTTT AGAATATGCT CTAGCCAAGT 60
 CTAACCTTTAT TTAGACGCTG TAGATGGACA AGCTTGATTG TTGGAACCAA AATGGGAACA 120
 TTAACAAAC ATCACAGCCC TCACTAATAA CATTGCTGTC AAGTGTAGAT TCCCCCTTC 180
 AAAAAAGCT TGTGACCATT TTGTATGGCT TGTCTGAAA CTTCTGTAA TCTTATGTTT 240
 TAGTAAATA TTTTTGTGA TTCTAAA 267

SEQ ID NO:4254

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05059

SEQUENCE DESCRIPTION:

GATCANAACT CAAACGGGCC GGNNTTCTA AGGTGTNGGT ATGTGGGGAG TGGTACAAAA 60
 TGGTCTGATG CTCCTTCAAA AACATTCACT TTTTACAACG TCAAGGAATT AAGCATAAAA 120
 AAGATTGGTT AAAAGCTTTG GTTTCTAGTA AAGGTTAGTG TGTGTGGTTT TTTAAGAAG 180
 CTGTNTTGGCT AAATNATTTT TACTTGGAAT GTTTCAAACA GATTTCAGGC TGCAAACTTG 240
 TTTNATAATC GTNNGCTTCT CCAAGTGAAG CTTCAGGAAT ACCTGAAAA TAGCTGTAAC 300
 GTTCGCN 307

SEQ ID NO:4255

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05060

SEQUENCE DESCRIPTION:

GATCTAATAA AAATTGAAAT ATGCCTTTTA GAATGGCTTT CAAAGATAAC AAATGCTGGA 60
 GAGGATGTAG AACAACGGGA ACCTCTCGGT TATTGCTGGT GAGACAGCCG CTTTGAAAAA 120
 GTTTGAGTTT CTTACAAAAT TAACTTACA CTTACACTTA CCATATGACC CAAAAATTCC 180
 ACTGCTTGCT CTTTACTCAA GTATAAGGAA AATCTATGTA CACACAAAAC TNGTACGTGA 240
 ATATTTATTA ATAGTCATTT TATGCCCAA ACTAGNAATA GTCCAAATGT TCTGGGN 297

SEQ ID NO:4256

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05061

SEQUENCE DESCRIPTION:

GATCTNTATT NTTTTNGCAA CAGACTTCAA GTGGTCCCTC TTTTTCCCT ACACACTCAG 60
 CTCTTCTCTA AAAGCAAGGA TTTGGAATGA NCAATTCAGT TTGACAGAAA AAGCTGAATA 120
 AAATGGCATC TGTAATTGAN TTGTTGAAA TGCCTTTTN GTCCTAAAT NTTAAACATC 180
 ATTAATAAAA TANTGTTTCA CAAAGAAA 208

SEQ ID NO:4257

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05062

SEQUENCE DESCRIPTION:

GATCACAGGA AGACTTTGTA AGGACAGTTT AAGTTCTCCT GCAAGGTTTA ATTTGTTATC 60
ATGTAAATAT TCCAAAGCAG GNTGCCTTGT GGTTTTGGCC AGCCTTGTGC TATGTTGATA 120
AGATTGATTT ACTGCTTAAA ATCACTTTAC TTTATCCAAT TTTACTGAA CTTTTTATGT 180
AAAAAATAA AATCAATTAA AGAACAAA 208

SEQ ID NO:4258

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05063

SEQUENCE DESCRIPTION:

GATCAGTTTT CTATTTTAAT GTGTAAAAA AATAACTTGT CGTATCCCAT TTAAAGGCCA 60
ATTTCTGTAT TCAGGCAGGC ATATGTACAT ACATGAATAA AGCCAACAAA AGTGTGCACA 120
TGTA 126

SEQ ID NO:4259

LENGTH:552

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05064

SEQUENCE DESCRIPTION:

GATCGGGGTG CCCCTCAGCC TTCAGACACT CTGAGCCCCA GANGCAGCAA AGGGTGAGCC 60
TCCTGCCTTG GTTTCTACCA CCATCTGGTG GTCAATGGCG GGACTGCAGT CGGCCAGGGA 120
CTGCGGTTGA CCTACACCTT CCTCCCCTGA GACATCAGCT GGCATGCCTC CAAGCCCTCT 180
GCGCATGCCC TCATTCTCTC CTGCCCCCTG GCTGACTTTG CATGTTGACT TGAACCCCTC 240
TGGGGAATCT NTGTGCATGT CCACAGCCCC TGGTTATGCT CTCACAGCCA CTGCCCCTNT 300
CTNTGTTTCA GCTGAGCTGG CTGACCGACC CAATCCCNCT AACCGGCCTC TGCCCGNTGA 360
NCCGGTGGTT GAGAAGCCCG AAGTCTNAGG GGGCCAGCAA GGCCCCAACC NCAAGGNAGG 420
CAATTGCTTG CNGGACCCCA AGGGGNCGGN TNGCCAATGG GGGTGNACTT TGCCGGGCCA 480
AAGGGGNTNN GAATTTCGG CNCTTAAGTN GTNACCCTC AANANNAANG GGGCAAACGG 540
GTTTNGNAAA AN 552

SEQ ID NO:4260

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05065

SEQUENCE DESCRIPTION:

GATCAGACCT TCTTGGGGTC TTCTGGCCAG AGCTTGTCAC CAGCCCCATG GCCTCTCCAG 60
GCGTGTCAT GCCACAACC CGCGGCCAGC CCCACGTGGT GCGGCTCAGC CTTCTCTGCC 120
CCTCCTGGGA ATCTGTCATT CGTGGGTGCT TCAGAGTAAA ATCAATGAGT TTCTGAGAAA 180

01344

SEQ ID NO:4261

LENGTH:553

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05066

SEQUENCE DESCRIPTION:

GATCAGCGTG CGGGGTGTGA AGATAGGCGT CAAGGCCGAT GACTCCCAGG AGGCCAAGGG 60
GAATAAATGT AGCCACTTTT TCCAGTTAAA AAACATCTCT TTCTGCGGAT ATCATCCAAA 120
GAACAACAAG TACTTTGGGT TCATCACCAA GCACCCCGCC GACCACCGGT TTGCCTGCCA 180
CGTCTTTGTG TCTGAAGACT CCACCAAAGC CCTGGCAGAG TCCGTGGGGA GAGCATTCCA 240
GCAGTTCTAC AAGCAGTTTG TGGAGTACAC CTGCCCCACA GAAGATATCT ACCTGGAGTA 300
GCTGTGCAGC CCCGNCCTTC TTGGGGTCCC CCCAGCCCCT NAGGGCCAAG TTGCCAGGGA 360
CAAGCTTGGC TTGCTGGACA AGGGATGTTG GCAACTTGNT TTNAGGGAGG GGGGCAACTT 420
GNCCAACCGG CCANNNGGN CAAAGGGAAA GTTNGGGGGG NCCCGTTTGG NCCAANGGGT 480
TAGGGGGAAG GGGTTGGGGG GNAATTNGGG GNGGNGGGG AAATTTNCNA GTTTTANTTG 540
TTAATTTTTT AAA 553

SEQ ID NO:4262

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05068

SEQUENCE DESCRIPTION:

GATCTCCCGG ACCCCTGAGG TCANATGCGT GGTGGTGGAC GTGAGCCACG AAGACCCTGA 60
GGTCAAGTTC AACTGGTACG TGGACGGCGT GGAGGTGCAT AATGCCAAGA CAAAGCCGCG 120
GGAGGAGCAG TACAACAGCA CGTACCGTGN GGTCAAGCCTC CTCACCGTCC TGCACCAGGA 180
CTGGCTGAAT NGCAAGGAGT ACAAGTGNA AAGGTCTCCAAC ANAGCCCTCC CAGCCCCCAT 240
CGNGAAAACC ATCTCCAAAG CCAAAGGGCA GCCCGGAGAA CCACAGGTGT ACACCCTGCC 300
CNCATCCCGN GACN 314

SEQ ID NO:4263

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05069

SEQUENCE DESCRIPTION:

GATCCAGGGA ACAATGACTA TAGGTGAGCA GATGCTTTAA ATTAAGGAAA GATGGAGAAG 60
AAGCCAACTA GGAAATTAGA GAACACAGCA AGCAAAGAGA AGCAAGCGAG TCCCCTTGAG 120
TGATGCCAAT ACTTTTTTTT TTTTTTTTG NGANANATTT TNTNNCCANT NTGGTN 176

SEQ ID NO:4264

LENGTH:389

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05070

01345

SEQUENCE DESCRIPTION:

GATCTTTNAG GAAAGACGGA TTGCNTTAGA AATAGACAGT ATATTTTNG TCACAAGAGC 60
 CCAGCAGGGC CTCAAAGTTG GGGCAGGCTG GCTGGCCCGT NATGTTCTC AAAAGCACCC 120
 TTGACGTCAA GTNTCCTTCC CCTTTCCCA CTCCTGGCT CTCAGAAGGT ATTCCTTNG 180
 TNTACAGTGT GTAAAGTGTA AATCCTTTTC NTTATAAAC TTTAGAGTAG CATGAGAGAA 240
 TTGTATCATT TGAACAAC TAAGCTTCAGCA TATTNTAGC AATCCATGTT AGTTTGNAC 300
 TTTCTGTTG CCACAACCC TGTTTTAAT ACTGTACCTT TANTTAAATT TCNNGGTTNN 360
 TAGTTTTTGT CAACAGGTTT TTTCCCAA 389

SEQ ID NO:4265

LENGTH:436

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05071

SEQUENCE DESCRIPTION:

GATCACCATG AAAGAAGAAT AGTTTTTGT CCCCAGAGAC ATTCATTTAG TTGATATAAT 60
 CCTACCAGAA GGAAAGCACT AAGAAACACT CGTTTGTGT TTTAAAGGC AACAGACTTA 120
 AAGTTGTCCT CAGCCAAGGA AAAATGATAC TGCAACTTTA AAATTTAAAG TATCTTGCAC 180
 TGATAAATAT ATTTAANANT TGTATGTTTA TAAAGTTATT AATTGTNNN GNCNGTGTTA 240
 CAAAATGTTC AGTTTATATT GTTTTAGATT GTTTTGAAT TTTAAAGGT GTAAAATAAC 300
 ATATTTNTCC TTTATGGNNA TCTATAAAC TTTCTGGTAG TAAATGTTT TCATTTTAC 360
 TGGGTATATT ATTTGCTTCC ATGNTTTTGT TNNCCNTCCA TAAGNNTTN NTGCCAGNTT 420
 TTTTTTTNN CAGGNN 436

SEQ ID NO:4266

LENGTH:533

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05073

SEQUENCE DESCRIPTION:

GATCTGTCCC CATCCGAAGA GGCTTTGTGA ACTGCCTGCT GAATGGAAGG AAAGCAACTT 60
 TAAACATTT AGAGTTTTCG TGAGTATAGC CAAATGCCTG TNCTGAACT TATAGGAAAT 120
 TGGAATTTTG TTTAAATTT TACACTTTAA GGTAGCAAAT GTCAATTATT NGNCCGAGCA 180
 TATTGTGAAG AATTAACTA AAATTAATAC GTACAGTTT CTCTAATTAG GTGACTGTTC 240
 ATAATGGGTA TATTTGGAAT TTAGAAGAAA TAATTTTGTA GNACTTGTGG CCCTTATGTT 300
 TAACAGATTA ATTCAGCATT GGCGTATTTN CTTTGTCCCA ATACAAGGAT GCCAAAGGAG 360
 GGAAACAGGA AAAATTGCCG TCCCATTTTT AAAAATTTTA GGGGTTTGGN TGGTTTTAAA 420
 CCCNTAAATT TGTTTCCCAN GGANCNTTTT TTTGGGGACC TTNCTAAATT TTTGGGGGN 480
 CATTTTNAAN TTAAAGGNAT TGNNGGNNC NAAGGNNGTN TTTGANTTN TGN 533

SEQ ID NO:4267

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05074

SEQUENCE DESCRIPTION:

GATCAAGGAA GAGATGGAGG CTTTCCCCGA AAAGTTCTAG CTGAGTGGCA GAAGTGAGAA 60
 TTTGTAAACT TATGTACAAT GTACGTGTAA ATAAATGGAT TGAATTCAG TTTGTCATCA 120
 GAAA 124

SEQ ID NO:4268

LENGTH:451

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05075

SEQUENCE DESCRIPTION:

GATCTGGGAC AGATTTCACT CTCACCATCA CCAACCTGCA GCCTGAAGAT TTTCCAACTN 60
 ATTACTGCCA ACAGTATGAT AGTTACCCGC TCACTTTCGG CGGAGGGACC AAGGTGGAGG 120
 TCAATCGANC TGTGGCTGCA CCATCTNTNT TCATCTTCCC GCCATCTGAT GAGCAGTTGA 180
 AATCTGGAAC TGCCTCTNTT GTGTGCCTGC TGAATAACTT CTATCCCAGA GAGGCCAAAG 240
 TACAGTGGA GGTGGATAAC GCCCTCCAAT CGGGTAACTC CCAGGAGAGT NTCACAGAGC 300
 AGGACAGCAA GGACAGCACC TACAGNCTCA GCAGCACCTT TGACGNTNAG CAAAGCAGNC 360
 TACGNAAAC ACANAGTNTA CGGCTGCGAA GTTNACCCCN TCAAGGGCCT TGAGCTTNGN 420
 CCNGTCACAA AGGNGNTTTN AAACAGGNGG N 451

SEQ ID NO:4269

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05076

SEQUENCE DESCRIPTION:

GATCTAGAAA CTGAGTTGTG GAGCTGACTC TAATCAAATG TGATGATTGG AATTAGACCA 60
 TTTGGCCTTT GANCTTTCAT AGGAAAAATG ACCCAACANT TCTNAGCATG AGCTACCTCA 120
 TCTCTAGAAG CTGGGATGGA CTTACTATTC TNGTNTATAT NGNAGATACT GAAAGGTGCT 180
 ATGCTTCTNT NATTATN 197

SEQ ID NO:4270

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05077

SEQUENCE DESCRIPTION:

GATCCCATCC CCTGTCTGA ACTGGAGCCA TGGGCACAAA GGGCCCAGAT TAAAGTCTTT 60
 ATCCTCAAA 69

SEQ ID NO:4271

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05079

SEQUENCE DESCRIPTION:

GATCTTGCTT CCCATCAGCC ATCTTTCTCC CAATAAATTT TTGTTTTGTG CAAA

54

SEQ ID NO:4272

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05080

SEQUENCE DESCRIPTION:

GATCTAACCA ATTNAAATAT GANTTCATAC TCNAAAGTAT CAACAAAAAA ATGAAAAGAA 60

ATAGCTGGTT TGGNTGTAAG AAATGGTGTA ATTAATGGNT TTN 103

SEQ ID NO:4273

LENGTH:449

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05081

SEQUENCE DESCRIPTION:

GATCACTGCT GGCCTACTCT GGTTACGGGG ACACTGACGC CCGGGTCACC GCTGCCATAG 60

CCAGTAACAT CTGGGCCGCC TACGACCGGA ACGGGAACCA AGCGTTTAAT GAAGACAATC 120

TCAAATTCAT CCTCATGGAC TGCATGGAGG GCCGTGTAGC CATCACCCGA GTGGCCAACC 180

TTCTGCTGTG TATGTATGCC AAGGAGACCG TGGGCTTTNN NNTNCTCAAG GCCAAGGCC 240

AGGCTTTGGT GCAGTACCTG GAGGAGCCCC TNACCCAAGT GCGGGCATCT TAACGGCATT 300

GGTGGAAGCT GGGGGTCAGA AAAGAGAAAT GACCCATTG NGAGGGGCTG GGGGNCCTCC 360

TAGGAAGAAC CTTTNTTAGG ACAATGGGGG GNAAGGGATG GGACTTTTNN TTTTTTCCC 420

AAGNATTAAT ACTTNAACT CCCTGTAAA 449

SEQ ID NO:4274

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05082

SEQUENCE DESCRIPTION:

GATCTNCATA ANCAGGGTTC CTGAGCTCAC TGAAAAGACT ATTGTCCCTT AGGAAAAGCA 60

TTTCCTGTGT NTCGTNAGCA TCTGGCTCCA GGACAGACCT TCAACTTCCA AATTGGATAC 120

TGCTGCCAAG AAGTTGCTCT GAAGTNAGTT TCTATCATNC TNCTCTTTGA TTCAAAGCAC 180

TGTTTCTCTC ACTGGGCCTC CAACCATGTC CCCTTCTCCT NAGCACCACA AATAATCAAA 240

ACCCAAA 247

SEQ ID NO:4275

LENGTH:424

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05083

SEQUENCE DESCRIPTION:

GATCATTTCC CAAGATTGGT TTCCCTTGAG TTTTGTCTAA AACAAATCTT AGTAGTTTTG 60
 CCCGTTTAAA ACAACTCACA ATCGTAAATG CTACTATTCC TAAGATATCT NACCTTTTNA 120
 TTTCAGTTTA GCCATGTATT GTATGAGTGT ATTAGTCTAA GCAGTGAGAA TCTTTNCTAT 180
 GCCTCTATTC CAGCAAAAAG TAGAAGTATC AAATAAAANG GGCAACTTTT AAAATATTAA 240
 GCCTGAAGAC TTCTAAAANG ACANGANACA TGGCCTAANT ANCCAACATA GGATTACAT 300
 AGTANGTTTC AACTACCTT ATTACCAAAA GCAAACCACC TCTACTTTT NNNCTACATT 360
 TATCCATGTA TATCTNTNGT ATGCTGGTCT TTNCTTTTT NGCCAAANTC NANCATTTTT 420
 TGNN 424

SEQ ID NO:4276

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05085

SEQUENCE DESCRIPTION:

GATCTAAAAC TTCTGTTGCT TTTGCCATTC CAAAACCTTG TCTTTGCCAG AAAAGTGTTG 60
 GTAACATAAA AGAAAATTAT ATATGANCAC GGCAGTTTGC ACTGTGTTTG AGTAGAACGT 120
 GTAAATGAAT TGTNCCCACC TTTGGTTTGC CAGTAAAGTA CTGGATTCTT GGCACATTTA 180
 TGTTACACAA AGTAGAACAA GAAGATATTA TTNCTATTTA TCAAGCAAAA GGAATTTTAA 240
 GATTTTNTTT TTNCNTTAAA ACCAANTTGG GATTTTNNNN TTNNTTTTN TTTGGGGGAA 300
 AAGGNTTN 308

SEQ ID NO:4277

LENGTH:374

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05086

SEQUENCE DESCRIPTION:

GATCGAGTCC GCCATGGAGA GGGACCGCTA CATGAGCCCC ATGGAGGCCC AGGAGTTTGG 60
 CATCTTAGAC AAGGTTCTGG TCCACCCTCC CCAGGACGGT GAGGATGAGC CCACGCTGGT 120
 GCAGAAGGAG CCTGTAGAAG CAGCGCCGGC AGCAGAACCT GTCCCAGCTA GCACCTGAGA 180
 GCTGGGCCTC CTCTCCAGAN TCATGTGGAG GGGCCAGAGG CTGCCAGACC CCCAGCTGGG 240
 CCCTGCTCAC CCCTTGTTGC TGGGCTTGGA GGGGCCTNTT GAGGAACCTT TAATTTGCAG 300
 GGGTGCCCGN TATGGACGGG GCATTNCAGC TGAGACACTG TGGATTTTAA ATTAAATCTT 360
 TTGTGGTCTT TAAA 374

SEQ ID NO:4278

LENGTH:510

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05087

SEQUENCE DESCRIPTION:

GATCTGTGCT TTCCAGCTCA CCCCCACAC TCACTCCTGA GACCCCTGGC CTCCGGCGTC 60
 ACNTCCAGCN TCTGTTCCCC TAGTAAGTGC CTTCCATGTC GGCTCTAAC CCCAGGCCCC 120
 GAGGACCCAG ACCCAGTGGG GAGGCGGACG TTCCAGCCGG CATGGNTGGG AACTGCAGAC 180

CTGTCTCTCT GGTGGGTCCA GGGGCCCCCTC CAGCTTGTGG AGCCCCACAN TGGGGTGCCG 240
 CCTGCCCCGT TTTTCCCAT GGAGCCCCAG CCCCCTTTGG GCCCAGGGAC ACCAGCCAGG 300
 CTCTGTGCTG ACCCTCCTGT TGCACCCAGN CCTGGTNTCA GCAGCGACCA CCCCTTGCNT 360
 TCACCCTTTG GAGCTTTTGC AATGTTTCCA NTAAANCCCN GGGNTGGGT NGGNAAGGTT 420
 GGGAGGTTGT TAAGGTTGTT TNGGTGNNCT TTTTGAAAGG GGNAGGATNA ATTAACCTTG 480
 ANCCNNTGGG GCGGNGNGNC TTTTGNGGTN 510

SEQ ID NO:4279

LENGTH:466

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05088

SEQUENCE DESCRIPTION:

GATCTAGCTT GGAGAGCTTG TGAATCTTAG GAGAGCTAGG CATAGAATGA CTAAAGTTTG 60
 TCACCGCATG AGATAAAATA AATGAAAAGC CACTTCTGGA GGGAATGAGG CAGTCTGCCT 120
 TTNTTGGAGA GATACATATT GTTGAACAGC TCTGGGCAGT TGATTGTTTG CCTGGGAGAG 180
 CTAACCATGT TTAATCTACA CTTGACCTGT GATGGTCTGT ATTGATTGTN TCACACGCTT 240
 AGCTTTCTAA GGCTAACCAG GTCATCGTCC TCAGTCCCTG CCTGCAACTA GGTTGCCAAC 300
 TGGCCCTTGA TTTCCACCC AACTTGTTCA GTTTGCCCTC AATCCTGGGG CCTCACTNAT 360
 TTCCCCAAAA NGATATGGTT TGGTACCACC TGTAAGTTTNC CTGTTGCATG GTTAAACCTG 420
 ACTTTTTGGG GAAACTNAAA ATANAACANT TTTTCAAAAC GGGAAA 466

SEQ ID NO:4280

LENGTH:470

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05089

SEQUENCE DESCRIPTION:

GATCGAGCCA CTGCTGAAGA ATGTCTAAAG CACCCCTGGT TGACACAGAG CAGTATTCAA 60
 GAGCCTTCTT TCAGGATGGA AAAGGCACTA GANGAAGCAA ATGCCCTCCA AGAAGGTCAT 120
 TCTNTGCCTG ANATTAATTC GGATACCGAC AAATCAGAAA CCGAGGAATC CATTGTAACC 180
 GAAGAGTTAA TTGTAGTTAC TTCATATACT CTAGGACAAT GCAGACAGTC TGAAAANGAG 240
 AAAATGGNGC AAAAGGCCAT TTCCAAACGA TTAAATTTG AGGAACCTTT GCTACANGAN 300
 ATTCCAGNG ATTTTATCTA CTGAGCAATA TTTCCCTTN GAACTTCAAG ATTTCTNCAC 360
 TGNANAATTN TTAATNTTN TTTTTTGGG GCCCTCTGGG CCAAATTGGN GNCATGTTCC 420
 TTTGNAGGTG GGTTAACCCA GTTNTCACT TNCACCAGTC CANNTNTTN 470

SEQ ID NO:4281

LENGTH:476

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05090

SEQUENCE DESCRIPTION:

GATCTACAGT CACCATATAT ATCAGCAGGA CCTAAGGNAA AAGATTTTGG ATGTTGGGAA 60
 AAGGTTAGAT GTGACTGGAT TTTGCATGAC AGGNAAGCCT GGTATAATCT GTGTGGAGGG 120

TTTCAAAGAG CACTGTGAGG NGTTCTGGCA CACAATTAGG TACCCCAATT GGAAGCACAT 180
TTCCTGTAAG CATGCTGAAA GCGTGGAGAC AGAAGGAAAT GGTGAGGACC TGCGCCTTTN 240
CCATTCTTTT GAAGAGTTAC TCCTTGAGGC TCATGGTGAC TATGGATTAN GGAATGACTA 300
TCACATGANT CTGGGCCAAT TCTTAGAATT TNTCAAGNTG CACAAAATTT NAGGCATGTT 360
TTTTTCCNGT TACTATTTTG GGTNTTNTNA AGCAAAAANT TTCAGNCTTC NTAAAAAGCG 420
GNTTAAAGGG GGNCTATTG NCCTGTNAAT TTTCCACTNA GGNCAGGTNT TTCTTN 476

SEQ ID NO:4282
LENGTH:277
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS05092

SEQUENCE DESCRIPTION:

GATCTGAATT GTNCGAAAAG CAGCCAGTGC CTAANTTGTA GCTCCACTTA TGCCAACTGT 60
ATATATACCT CTCGTGAGCA TAGCAAGTNA TTTANTATTT TNAAGATG GCTAAAATCC 120
TTTAAATGAA CAGCACTAAA GTTATATGTA TTAGAGGAGA ATTATTGANT GANATGGAGA 180
AAGAGTTCTG AAATTANTAT TTNCATTTGG GCTTTTTTAC AGATAATATT ATATNNCTAA 240
GTGACCAGAC GAAAGAGAAG GGNGTAGAAA AGGNTGN 277

SEQ ID NO:4283
LENGTH:314
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS05094

SEQUENCE DESCRIPTION:

GATCCCCAGA CCTCACTTGC CTCTGCCTCC ATCTTGGCCC TGATTCAACC CTAAGATAAT 60
AGCACAAACA AATTCTNCAT AAAGATATTT TAATTCACCT GTNCCGTGCT ATATGGAGGA 120
GGCCAAGTCC ATTTAGTGAC ATTNCTNCCC ATAATGTGAG TGGGGAGGAT TGTGGGGAGG 180
AGGGGGCTTG GTTTCCTGTG TTTGTGCATA TGAAGGGAGA TGGGGGTTAG GTGGAGGAGG 240
AGAGCAGCGT GGTTAGCTAA GGTTATTGCT TTTTGTGGCA AATCTAATTA AATGACAGGA 300
ATCTCTTCAC GAAA 314

SEQ ID NO:4284
LENGTH:489
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS05095

SEQUENCE DESCRIPTION:

GATCTTCATG GAGCTGAATG ACGCCTGGTC GGAGTTTGAG AACCAGGGCT CNCGGCCCCCT 60
CTTCTGAGGC CGCAGTGGTG GTGGCTGCGC ACACAGCTCC ACAGGTTGGG AGCCGTCGTG 120
GGACCTGGGT CCCACCGTN AGGACCCCGT GGGCGACAGA GGTGTGGCCA GGGTGGGGCT 180
CCGAGCCCCG GGTACCGCC CGCCAGCGT TCCAGGCACA TGAAGAGAAA GCATTCCAAA 240
GCCTCTNATT GTTGTTTCCT TTTTNTCCTC CCGAAGAACA GCTGATTCAT GTCCTCCCG 300
CAATTNTNAC GTCTGTAATT TATTTGGTGT TTCGGGCGTN GTCTCTTGGA GCCCCGGCAC 360
GTTNGTGGGG CCCACGGTTG CTTGGCGGTT CAATGGGGCC CTTGGTGTTC TGCACCGGAA 420

CTTTTGTAAG TCAAGTNCCG TGGGTTGGTN TTGTTACAAG AATTNAAAAC TAATTTTCC 480
CGNTTGAAA 489

SEQ ID NO:4285

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05096

SEQUENCE DESCRIPTION:

GATCATATTT CCCCTTGGAC ACTTGGTTAG ACGCCTTCCA GGTCAGGATG CACATTTCTG 60
GATTGTGGTT CCATGCAGCC TTGGGGCATT ATGGGTTCTT CCCCCACTTC CCCTCCAAGA 120
CCCTGTGTTC ATTTGGTGTG CCTGGAAGCA GGTGCTACAA CATGTNAGGC ATTCGGGGAA 180
GCTGCACATG TGCCACACAG TGACTTGGCC CCAGACGCAT AGACTGAGGT ATAAAGACAA 240
GTATGAATAT TACTCTCAA ATCTTTGTAT AAATAAATAT TTTGGGGCA AA 292

SEQ ID NO:4286

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05099

SEQUENCE DESCRIPTION:

GATCCAGTG GAGGCTGTAA CCCACCTGCC CCCGCACCAC CCCCNTGAC CCCTGTTACC 60
GCATTTGTGT GTATTAATGC TGAAGAATTA AATGTTTAA GAGTTTAAAT TTTGAAGGCG 120
TTTGCTATAT ACAGTTGTCC TGCATTATTA TAAAGAGTTT TCAGGAAGTT AAA 173

SEQ ID NO:4287

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05100

SEQUENCE DESCRIPTION:

GATCAGAAAT GTGAAGCACA AATGCTGCTT CTCCCCCTCC TGTTCCCATG TCAGAGATGG 60
AGAAGAAAGC ACAGTGAGCT GTTCACCAGT CCAGCGGTGA CCTCGGAGTC CTTTGTAACA 120
GTGTTTCCAA TANCTTCTGC CAATAAAACA GAATTTNNGT TAGAACCTAT CTGCTGTCCC 180
TCAACTAGTG TCTGATAGCT GAGAATGTAA TTCGTTTNTN TGTCTATTAG AAAATTAGGC 240
AGGCACCACA GACAGTAGCA ACATAAAGGA ACCTGCTTAG AAGNGGTTTT NATGGGNNNN 300
NNCNCNN 307

SEQ ID NO:4288

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05102

SEQUENCE DESCRIPTION:

GATCCTTAAA TCTCCATTCT GTTTGTGGTT GCCCCTCAA CCTCCCCTAC ACCCTTCCTA 60

TTCTTTTNCA TTCTTCTTGC AGTTCTGGGA GTAAAGCTCC CAGCATATTT AGATAATAGG 120
GCAGGGGAAG CACCCTCTTT CTTTCTAGAC TGGATTATGC TCACATGCTC CCTTGCCCTG 180
ACATTTTGT AAATNCTGTG CCCTTTGCTG TAGCTACACT TCAGATTAAA GTAGGAGAAA 240
GAAA 244

SEQ ID NO:4289

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05103

SEQUENCE DESCRIPTION:

GATCAAAAGTT GCGGGGGGCT TGGCTGTGCC CTCAGATTCC GCACCAATAA AGCCTTCAAA 60
CTCCCTAAA 69

SEQ ID NO:4290

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05104

SEQUENCE DESCRIPTION:

GATCTTTNAT CCTTTGTTGC AAAAGTGTGG AACTTTTNA NAGCTTGGCA GATTTNAACT 60
CCAGAAGCAC TTTATGAAAT GGTACACTGA CTAATCCAGA AGACATTTCC AACAGTTTGC 120
CAGTGGTTCC TCACTACACT GGTACTGAAA GTNTAATTNN TTAGAGCCAA AAAACTGGAG 180
AAACAAATAT CCTGCCACCT CTAACAAGTA CATGAGTACT TGATTTTAAT GGTATAAGGC 240
AGAGCCTTTN NTTCTCTTC TTGATAGATG AGGCCATGGT GTAAATGGAA GTTTCAGAGA 300
GGACAAAATA AAACGGAATT CCATTTTTTT NTCAGTAA A 341

SEQ ID NO:4291

LENGTH:395

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05105

SEQUENCE DESCRIPTION:

GATCTTAGAG TCACTTTGGA ATAAGNTCTT ACATAAATAC CCCAGCCTT TTGAGAACGG 60
GGCTTGTTAA AGGACGCGTA TGTAGGGCCC GTACCTACTG GCAGTTGGGT TCAGGGAAAT 120
GGGATTGACT TGGCCTTCAG GCTCCTTTGG TCATAATTTT AAAATATGGG AGTAGAAAAC 180
AACANAGNNT GGAATGGACT CTTAAAACAA TGAAAGNGCA TTTATCGTTT GTCCCTTGAA 240
TGTAGAATTT TTTTTTGATT TCATAATTCT NCTGGTAAAT NTGNCAGTTA AAATGGTGCA 300
TTATGTATAT ATTANTATAA TTTAGANATT CCATTTTATA NTTNTCCTA TTCCAGGGTN 360
GCATAANGCA TTTTNNANTT TNGGGGTTTT GGNTN 395

SEQ ID NO:4292

LENGTH:349

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05106

SEQUENCE DESCRIPTION:

GATCATATTT TGCAGTTTTA GTAAAAGGGA AATATTGTTA TACATTTNTT AAATATACTT 60
CCCCCATGAN GTGAAAAGGT TAATTTTNC TANTGTTTTA AGTTGAAAGT ACTTCATGGA 120
TGTCATACCC ATGANGTGCA TTTGGNTGAG ATAGCNGAAA TTTTTTTTTA AAAAGTTTAA 180
GTACCAAAGG TAGTCTAGTC TAGAACGATA AGTTAATACG TTTTGGCTTT NNTAATTTGT 240
ACTGTAACAT CCTTATACTT TCTATTTNAA GTATATCTGT TTCTTAAGTA AACAACTTAG 300
ATATTTTCCA CACCTTTTTT TTTTTTTNCC CNTGNNGGGT CCNGGGTNN 349

SEQ ID NO:4293

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05107

SEQUENCE DESCRIPTION:

GATCTGCCAT TTATTAGCTG TGGGATTTTG GGCAAATTTN TTGACTTTCT GTGCTTCANT 60
TTTCTTAGCT GTAAAATTGG AAGAGTTGTT ATGAAAATNC ACTGAAAGTA TATTTGTATA 120
CATCATAGGA TAGTGTAAGA ATATAGTATG GCTTTGAGAA ATGTTTATNA TTATNACTCC 180
CAGAGGAGTT TTAGGTATTA AGTGATGCCA AATATAATTT NTNAATTGTA TAATAAAAAT 240
CTATATNCTT ACTGAAA 257

SEQ ID NO:4294

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05108

SEQUENCE DESCRIPTION:

GATCACCATC CCAGTAACCT TCNAGTCGCG GGCCCAGCTT GGGGGCCCAG AAGCTGCAAA 60
ATCCGATGAG ACTGCCGCCA AGTAAAGCCT TAGCCCGGAT GCCCACCCTT GCTGCCGCCA 120
CTGGCTGTGC CTCNCCCCTN ACCTGTGTGT TCTTTTATA CATTTATCTT CTGTTTTTNT 180
CAAATAAAGT TCAAAGCAAC CACCTGNANA AA 212

SEQ ID NO:4295

LENGTH:559

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05109

SEQUENCE DESCRIPTION:

GATCCAGTGG GGATGTTGTN ATGACTCAGT CTCCACTCTC CCTGCCCCGTN ACCCTTGGAC 60
AGCCGGCCTC CATCTCCTGC AGGTCTAGNC AAAGCCTCCT ATACAGGGAT GGAAACACGT 120
ACTTGANTTG GTATCAGCAG AGGCCAGGCC AACCTCCAAG GCGCCTCATT TATGAGGTTT 180
CTAAGCGGGA CTCTGGCGCC CCAGACAGAT TCAGCGGCAG TGGGTCAGCC ACTGATTTC A 240
CACTGACANT TAGCAGGGTG GAGGTTTGAC GATGTTGGGA TTTACTATTT GCATGCAAGG 300
AACACACTGG NCTCAGACGT TCGGCCAAGG GGACCAAAGG TGGNAAATTC GAACGAACCT 360
GTGGCCTTGC ACCNATCTTT TTTTCATCTT TNCCGNCATC TTGGTTGNGC AAGTTTGNA A 420

ATNTTGGGAA CCTNGCCTCC TTTTGGGTGN TGCCTTGNET TGAAATAACT TNNTTATTCC 480
 CAAGAGGAGG GNCAAANTTC AAGTTGGGAA GGTGGTTTA ACCGGCNTTC CAATTCNGGG 540
 GNAANTCCCN TGGNGGGNN 559

SEQ ID NO:4296

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05110

SEQUENCE DESCRIPTION:

GATCTCTATG TATGTGTGTA TATAAATATA GTTTTTTATC TATATATAAA 50

SEQ ID NO:4297

LENGTH:548

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05111

SEQUENCE DESCRIPTION:

GATCAAACGA ACTGTGGCTG CACCATCTTT NTTCATCTTC CCGCCATCTG ATGAGCAGTT 60
 GANATNTGGA ACTGCCTCTT TTGTNTGCCT GCTGAATAAN TTCTATCCCA GAGAGGCCAA 120
 AGTACAGTGG AAGGTGGATA ACGCCCTCCA ATCGGGTAAC TCCCAGGAGA GTGTCACAGA 180
 GCAGGACAGC AAGGACAGCA CCTACAGCNT NAGCAGCACC CTGACGCTGA GCAAAGCAGA 240
 CTACGAGANA CACAAAGTNT ACGNCTGCNA AGTCACCCAT CAGGGCCTGA GCTCGCCCGT 300
 CACAAAGAGC TTCAACAGGG GAGAGTTTTA AGANGGGAGA AGTGCCCCCN ANCTGGNTCC 360
 TCAGTTCCAG CNTGACCTC TCCNATCCTT TGGCCTGTGA CCCTTTTTTT TCCACAGGGG 420
 GNCCTACCCN TTTTGGNGGT CCTCCAGCTC ATTTTTTTAA CCTTAACCCG GNTTNNTTCT 480
 TCCTTTGGGG TTAAATTAT TGNTTAATTT TTGGGGGNGG ATTGNTTTAA ATTAAAGGGA 540
 ATNTTTTN 548

SEQ ID NO:4298

LENGTH:415

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05112

SEQUENCE DESCRIPTION:

GATCAGCGCC TGAGAAGTCG TCGGGCGATG TCCCCGCGCC GTGTCCCTCT CCAAGCNCCG 60
 CCCCTGGGTG GGCTCGGTGG AGCAGACCCC GCGCAAGAGG CTGCGGTGAG CCAATTTAGA 120
 GCCCAAAGAG CCCCAGGGA ACCTGCCGGG GCAGCGGACG TTGGAAGGGC GCTGGGCCTC 180
 GGNTGGNACC GTTCATGTAG CAGCAACCGG CGGCGNNTGC CCAGNAGCAG CGTTCGGTTT 240
 TTTTTTTAAA TTTTNAAAAC TGTGCAATGT ATTAATAACG TTTTTTTATA TCTAAATGGT 300
 ATTCTGCACG AGANGTACA CTGGGTCCCA AAGGTGTAAA AGCTTTTTTA GAGTCATTGT 360
 ATTATAAAN TNNNTTAAAT CTNTTGGTTG AAATCTTNA GTGNANAGT ATTNN 415

SEQ ID NO:4299

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05113

SEQUENCE DESCRIPTION:

GATCTAATCT NAGATGTAAA CATTCAAATT NACCCTGTAG ACTNNGGTGA CAAGTTTCGN 60
TTGGTCATAG CTAGTACCTT GTATGANGAT GGTACCCTGG ATGATGGTGA ATACAACCCC 120
ACTNATGATA GGCCTTCCAG GGCTGACCAG TTTNAN 156

SEQ ID NO:4300

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05114

SEQUENCE DESCRIPTION:

GATCTTACTT TCATCCAGTC TAATAGGTTT GGAGATTAAA CCTTTNCTCA ACTTGTGCTG 60
TTTATATAGC CAAGCTTCCG TCAATAAGGC TTCATTGTGA CTTTAACAAA CATNATCTTC 120
CCACATACCA GGAAGTATTG GACATTTATT TTACATGGGA AAAATTATTT GGAATAATAA 180
AGCAGGNACT TTNCCTGANG TTGCAATTTA TACTGTATGG CTNCTNNTTC ATGTTTCATC 240
TAGGTTTTAN GAAGTGAAGT ATANGTAAAT NTNGGTTCGT TAAATNGTGA TGGCGCTGGN 300
NATTACATGN 310

SEQ ID NO:4301

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05115

SEQUENCE DESCRIPTION:

GATCACTCAA GCACAGGATT TTAAGACCAG CCTGGGCAAC ACAGTGAGTG AGACCCTGTC 60
TCTACAAAAA AATTAATAAT TAGCTGGATA CTGTGGTGTG TGCCTGTAGT CCCAGGTACT 120
TGGGGCATTG AGGCAAGAGG TTAAGTTNAG CTCGGGTGTT TGAGGCTATG ATGAACTATG 180
ATTGTAGTGC TGTACTCCAG CCTGTGCAAA ANAGTAAAC CTTGTCTCAA A 231

SEQ ID NO:4302

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05116

SEQUENCE DESCRIPTION:

GATCGGGCCA CTGCACTCCA GCATGGGTGA AAAAGTGAGA CCCTACCTCA AA 52

SEQ ID NO:4303

LENGTH:419

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05117

SEQUENCE DESCRIPTION:

GATCACCAAC AGCCGTCCTC CCTGCGTCAT CCTGTGACTG CACAGGACTC TGGGTTCTCTG 60
 CTCTGTTCTG GGGTCCAAAC CTTGGTCTCC CTTTGGTCTT GCTGGGAGNT CCCCTGCCT 120
 CTTTCCCCTA CTTAGCTCCT TAGCAAAGAG ACCCTGGCCT CCACTTTGCC CTTTGGGTAC 180
 AAAGAAGGAA TAGAAGATTC CGTGGCCTTG GGGGCAGGAG AGAGACACTC TCCATGAACA 240
 CTTCTCCAGC CACCTCATAC CCCCTTCCCA AGGGTAAGTG CCCACGAAAG CCCAGGTCCA 300
 CTCTTNGNCT CGGGTAATAC CTGTCTNGNT GCCCACAAGA TTTTATTNA TTCTCCCCTT 360
 AACCCNAGGG CAATGTCANN NTATTTGGCA GTAAAAGTGG GGGTTACAAA ANCACTAAA 419

SEQ ID NO:4304

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05118

SEQUENCE DESCRIPTION:

GATCTCCCTA GGGCCCCACC TGGACCATT TCCCTCCGTT TTATTTTGTT AATTAAATTC 60
 TTTCCAAATT GGAAA 75

SEQ ID NO:4305

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05119

SEQUENCE DESCRIPTION:

GATCTCAGTT CACTGCAACC TCGCCTCCN AGGTTTCAGGT GATTCCNTTG TCCCAGCTAC 60
 TTGGGAGGCT GAGGCAGGAG AATCACATGA GCCTGGGAGA TGGAGGTTGC AGTGAGCCGA 120
 GATTGCACCA CTGCACTCCA GCCTGGGCAA CGAGCAAACC TGCNNCTCAA A 171

SEQ ID NO:4306

LENGTH:309

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05120

SEQUENCE DESCRIPTION:

GATCCCTGGT GTGTTGTGTG GGCCTCTTTA ACGTTTGCCA CTGAGCCTTA ACCTCACTGT 60
 ACTTCACTGT ACTTACACG CATTGGTGTT AACATTTTAA TCTTAGAAGA CCCTGACCCA 120
 CTGAGGGTTT GTGTGAGAA TTGCTGAAGC CACGTAGAAG CACCTTGAAA TCTGTAAAAC 180
 CACAAGAAAG TACTTTATAA AAGGTATCCT TATTTGAAGT GGATAAATCT TGTAACCTCGA 240
 AAAGTTGTGA TTTAGAAGAC AGGATTGTTT TTGAACATTA GGAATTAAAG GCTATATCTG 300
 GTCCTTAAA 309

SEQ ID NO:4307

LENGTH:587

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05121

SEQUENCE DESCRIPTION:

GATCTAAAAA CTCATCTTTG GGGTAAAGAG TTAAGTGTCC AAAGGTTGTC ACAGTTCATG 60
AGGTCAGAGG GAGCTAGCCT GGCACCTGGA CTCTGCCCAT CCACAGCTGA CAGATTCCAA 120
CAGAAGTGTA TTAAATTCT CCAGTAGACA ATGCTGGGTA AGGGAGGGGN TAGNNCTGGG 180
TTATTAAGAT ACAGGCTGCT GTATTTTACA TTGGTTGTGG GGAAGGGGA GCCTGGAGAA 240
AACAAAGTCA CTATCCCTT TTTGAAACA GGAAAAAAA TTATTTTGTG TTCAGTAAAA 300
ATGGGTAGGN GAATCCAAT GTCCCTAGCC ACAAGGGNCC AGTTTCCACT GAGGAAGTGA 360
ACCAGTGGGG AACTCAAAAT TTCCAGGNAA CATTGGGGGG GAGGGGGAAA ANTTGGGCTT 420
TTCNCTTAAA TTTGGCAGNT NTTNCCAGT TGGGGNCNGG GNGGGGGGCT CCTGTTTTTT 480
TTTTTTGGGG NTTGTGNTTA NTGNTNNTAT NGTACCGNT TATTTTGGC CCCGGGGTTT 540
TTCTTGGGNT TTNTNAAGGG TTNCCCCAA NTTGGGTNA AAACNTN 587

SEQ ID NO:4308

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05122

SEQUENCE DESCRIPTION:

GATCCCCCA TCTCTNCAGC ACTCTCTTGC TCCTCTCCCT TTTCATTTCC TTACTTTGTA 60
TCTNTCAGA TTAGAACATA TTTNNTTGT CATGACAAAG GACTCTCCAA A 111

SEQ ID NO:4309

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05123

SEQUENCE DESCRIPTION:

GATCTNAACT CCTTGGCTTC TTTACTTAGT TCAAGCCCCA GCCTAGGAAA GCCAGTTACA 60
TAAAGATTGG CTCAGGAGTC TTAGAGCTTT ACCTAAATAT GAGCCCAGAA AACGGAGGAT 120
GGGGGTGGGG CGCCTTCCTG GAGGTGACAC TTGATGGGGG TGTGTTCTGG TTAGTGTCT 180
AAGGCTGTGC CATCAGCTCC TTCCTCCCCT GTTCATTCTG CATTCTCTAG TCAGTTGGCT 240
AAGAAGTGAC TCTTGCAACT AAAAAAATTA AGAAATTCAC TTCCCCTCTA GGAGGTGATG 300
ATAGGGTTTT N 311

SEQ ID NO:4310

LENGTH:366

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05124

SEQUENCE DESCRIPTION:

GATCAGAGTT TCTGTGGAAT TCTGTTTGTT AAATCAAATT AGCTGGTCTC TGAATTAAGG 60
GGGAGACGAC CTTCTCTAAG ANGAACAGGG TTCGCCCCAG TCCTCCTGCC TGGAGACAGT 120
TGATGTGTCA TGCAGAGCTC TTACTTCTCC AGCAACACTC TTCAGTNCAT AATAAGCTTA 180
ACTGATAAAC AGAATATNNA GAAAGGTGAG ACTTGGGCTT ACCATTGGGT TTAAATCATA 240

GGGACCTAGG GCGAGGGTTC AGGGCTTCTN TGGAGCAGAT ATTGTCAAGT TCATGGCCTT 300
AGGTAGCATG TATCTGGTCT TAACTCTGAT TGAGCAAAA GTTCTGAGAG NAGCTGAGCC 360
CTGTTN 366

SEQ ID NO:4311

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05127

SEQUENCE DESCRIPTION:

GATCACGCTG ACCTGGCAGC GGGATGGGGA GGAACAGACC CNGGACACAG AGCTTGTGGA 60
GACCAGGCCT GCAGGGGATG GAACCTTCCA GAAGTGGGCC GCTGTGGTGG TGCCTTCTGG 120
AGAGGAACAG AGATACACAT GCCATGGTGC AGCAGGAGGG GCTNCCCCAG CCCNTNATCC 180
TGAGATGGGA GCAGTCTCCC CAGCCCACCA TCCCCATCGT GGGCATCGTT GCTGGCCTTN 240

SEQ ID NO:4312

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05128

SEQUENCE DESCRIPTION:

GATCTTTTCT CCATCATGTA CTTAGTATTT CCCATTAACC TACACACTGA TTTTNTGCT 60
ACTCCTTGTA GAAACAAAAT TNTGGNTGGA CTCAGN 96

SEQ ID NO:4313

LENGTH:354

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05129

SEQUENCE DESCRIPTION:

GATCTGCTGG TCCTTGCAGG CAAAGCTACA GCCAGANTGT CCGTTTGANA CTCCTAGCTC 60
ATCTGTCACC GAGCTTNATC CGAATGTGCC ACGGAGCTTN CTCTCCACTT CCTCCGTGCA 120
GCGGCCCTGC CACAGCCCTC CCTCGGCACA CTTTGACCCT TTGTAGGGTT GGNATTAGCA 180
GGACTCGGCT ATTTAAAGCA CCAGTCTGGG GTCGCCTGGG CCCCTGCTGA CCCNTTCCTN 240
CAGAGCAGCC AGCCCAGCCC GGAACAAGA CGGACTTNCT ATNCCTTCGG ACTCACAGCC 300
TTTGAAGAGT CAAGCTNCAC TTNAAGCTCA CTCAGTAATA TCCTTTCAAT GNGN 354

SEQ ID NO:4314

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05130

SEQUENCE DESCRIPTION:

GATCCGCCAC TTTCGGCCGG AGCTCGAGGA GCGGATGCAG CGGTTTGCCC AGCAGCATCA 60
GGCCCGGCAG GCTGCCTCTT AGCCCACCAC CCTGGCCTGC TGTCCTGCGT CTATCCATGT 120

GGAATGCTGG ACAATAAAGC GAGTGCTGCC CACCCTCCAA A

161

SEQ ID NO:4315

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05132

SEQUENCE DESCRIPTION:

GATCCTGGCT TTCCAGGGTG GGCAAGGGCA AGGAGCAGGC TTGGAGCCAG GGACCAGTGG 60

GGGCTGTAGG GTAAGCCCCT GAGCCTGGGA CCTACATGTG GTTTGCGTAA TAAACATTT 120

GTATTTAAA 129

SEQ ID NO:4316

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05133

SEQUENCE DESCRIPTION:

GATCTTTGAG GTGAACAAC TGCCTGTGGA ATCGTGGCAG TAACTGTTTC CACTCACAGC 60

CTGAAATTCT CCTNTGTCCC AAACCCCAGG GGGCCCCAGC AGCTTCGAAC CTACACCTGA 120

GGGCTACCAG CAGGTGGCGC TNTGGCTTTG CACTGCAAAA ACTGGGGACC AGCCCNCTTC 180

TNCCACAAAT AAAGCCCAAT AAAGCCTGAG AAGTGAGGAA AGCCAAA 227

SEQ ID NO:4317

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05134

SEQUENCE DESCRIPTION:

GATCTCCGTG GATGAAGTGC GTCTGGACTC TTAGATTCAT AAAATATTCTG AGGGTTTGGA 60

AGTNACAGAC CCTCCCCTCT CCTCAGTGCA CTTTGGCATT TNCACGGTGT CTTCCCCGGA 120

CAGCACAGCA ATAAATNGNG TGATTGCGTG GAAA 154

SEQ ID NO:4318

LENGTH:181

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05135

SEQUENCE DESCRIPTION:

GATCAGGTTT GGNCTTCTCC CACTGAGCAT GACAAGCACT CGAAAGGCTA AATCAACCAG 60

AAACATCGAA AAAAAAGCTC AGTACGATGC CAACTNTTAA GCCTGCAGGA NTCCTCCTGG 120

GTTGTCCCC CGGCACGNTC CACAGCTGGT NGACCCGGCA GTTCCTGGNT CCTTGTTTCAG 180

N 181

SEQ ID NO:4319

01360

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05136

SEQUENCE DESCRIPTION:

GATCTGCCCT TGNTNGCCTC ATACCTCTGT GCTCCACACT GCGGCCAGGC CAGCTGAGTC 60
CCTCCATCCG TGGATGCTTT CCTGCAGCTA TGTGGTATGG GGGTCATTCC TGCCTCTTGG 120
CACCAGGTTG GGGGGCATGT GCTTGTGGG CACCAAAGTG ATGGAACCCT CAGGTGCTCT 180
CCGGGAGCCT GAACCTCCTG ACTGAGGAAC ATGGGCAGAA CATGTTTATT GCACAGAGTG 240
GGCGCTGCGC ACAGGCGTGG CTGTACACGT GCTCTCAGCT CATCATCCTT TCCAGTAACT 300
TTAAAAAAC ATCCN 315

SEQ ID NO:4320

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05137

SEQUENCE DESCRIPTION:

GATCGNGNNA CTTGGGGNGN GGCCCTAGGC ACTACCAGCA GCGCACGCTC ACCTTCGCCC 60
TCAGGGCTGA CGACCCCTG CTCAAGCTCT TGCAGGAGGC TCAGCAAAGC TGAATTAAC 120
CAGGCAGAAG AGCACAGATG TGTGGGATTG GGGGAGGAGT GGGGACAAGA TTTTNNATCT 180
CTAAGTGAAT TTTCTAAAAA TGTATTTTAT ACCGGCTTAT TCCTAGTATT GNATAAACTA 240
GCGGGNTCAN TCAAA 255

SEQ ID NO:4321

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05138

SEQUENCE DESCRIPTION:

GATCAAACAT GCATGGNTGG GTCCTCACGC AGACACACCC ACAGAAGGAC ACTAGCCTGT 60
GCACGCGCGC GTCNATCTAC ACACACACAC AAGAGTTCAT AATGTGGTGA TGGCCCTAAG 120
TTAAGCAAAA TGCTTCTGCA CACAAAACCTC TCTGGTTTAC TTCAAATTAA CTCTATTTAA 180
ATAAAGTCTC TCTGACTTTT TGTGTCTTCA AA 212

SEQ ID NO:4322

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05139

SEQUENCE DESCRIPTION:

GATCGAGTTA TTATGATAAC TGTGGTAATT TGTTGTTATA AATAGCAGTA ACATAGGAAG 60
GTTTTGGTAA CTNCTGACAA GAAATTTNAT GTAGAGAGTT AATTCGAGC ACATTAAAT 120
GACTGTCCCA CTCAA 136

SEQ ID NO:4323

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05140

SEQUENCE DESCRIPTION:

GATCTGCATT ATTCTNGGAN AGTATTCAAG TGGTATCTTG ACTATTAAAC TACGTATAGT 60
GTTNNTGNAA TAGAAAGAAA ACAGCATTGG AATTGGATTC ATGTATCGTG GGATACAGGT 120
GTTATTTTCAG GTGATGTACT TGCATTATTT TCTTTAGCCA TAGTAACTTT TTGTCACAAT 180
AACTAAGTAT TCAATTATAT ATAANGAGTG AAACATTAAA ATGGNAAA 228

SEQ ID NO:4324

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05141

SEQUENCE DESCRIPTION:

GATCCTGCCA CTGCACTCCA GGCTGGGCAA CAGAGTGAGA CCATGTCTCA AAAAATAAAA 60
ATAAAATAAA ATAATATCAG GNTGCATACA TCAGAGGCTG TTCCTAGTGT AAAGGCACTT 120
TGGAGGGAGA AGACTTTTCAG AGTTAGGCAG ACCAACTAAG AGGTCAGCTG ANGCACCTAA 180
CCAGTTGTAA GGAGGTGAAA GACAGCACCC CAAGANGAGA TGTGCAGGAN GGAGGAAAGA 240
GGCTTGGTCA TAAAGGNTGG AGGAATTCCA AAGTGACACT GANACAGGCT GCGTTTN 297

SEQ ID NO:4325

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05142

SEQUENCE DESCRIPTION:

GATCGTTCTG CTGAGTATGT TAAGCTCTTT ATGACTGTTT TTGTAGTGGT ATAGAGTACT 60
GCAGAATACA GTAAGCTGCT CTATTGTAAA 90

SEQ ID NO:4326

LENGTH:411

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05143

SEQUENCE DESCRIPTION:

GATCTGCTGC TGCCATTTTA ATCTTGCTCA TTAACCTTAC TCCTTTGAGA ATTCTTTAAC 60
AATATTTAAA ATTGGTAACA AAAATAGTTT AGCCATAATT GTTTAGCCAT GTGAGTTTCA 120
GGTTGGTACA CGTTCAGACA GAACTGCTGT ATCACATTCC AATTTTGAAT AGCCAGTGAG 180
CAATCAAGTG TAGAGAAATG ATAAATGGCC TAAGAAGGCA TACAGTGGCA TAAACGATGC 240
TCTTCCTAGT AGCTTAATAG GCCACAAGCT AGTTTCTGTT GCACTCTGAA ATAAAATATG 300
CTTTAAAAAT GTAGGGANCA GTGCTTAGAA AAGCAAAANC TAGGTGTGTC ATTGANATAA 360
TAGGCATAAN ACTTAAATGT TCCATAGGCC ACTATTTGGA AGGGGGCCTT N 411

SEQ ID NO:4327
 LENGTH:99
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS05144
 SEQUENCE DESCRIPTION:
 GATCTACACA TTTTATAGT CATTTAAAAT TGTATGACTC TGTCAAATNA TTAAAGTAAT 60
 TTTGGTGGAT TTTTAAAAT AAAAAATAA AAATAGAAA 99

SEQ ID NO:4328
 LENGTH:80
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS05145
 SEQUENCE DESCRIPTION:
 GATCAGTTTT TATAGCATCT ATGGACATAG AAAATCAGTC ACTGAAAAAA ATAAACACAG 60
 CTTTCAATGT CTCACTCAA 80

SEQ ID NO:4329
 LENGTH:263
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS05147
 SEQUENCE DESCRIPTION:
 GATCCAGAAT CACCAAGACC TCCAGCCCTG GATGATGCCT TTTCCATCCT GGACTTATTC 60
 CTGGGACGTT GGTTCGGTC CCGGTAGCCT TGTTAACCT CAGAGGCCTT CAAGTCCTTT 120
 CCACCTNTCA CCCATTGCCC ACCATTAANA AGCTTAGCTG NNTCTTGCCA CCTCAGGGGC 180
 TTGGATATGT GGAATAGTGA ACTGGGNCCA TGTCAGTTTG TCACTNACCC AAAGTGACCA 240
 ATAAACCTN NATTTATGNT AAA 263

SEQ ID NO:4330
 LENGTH:111
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS05148
 SEQUENCE DESCRIPTION:
 GATCCTAANN CTGACAAGAT TCAAAGNACT AAATTTAATT CAGTCATNAA CACTACCAAT 60
 TACCGTTTAT NGGTAGACAT CTTTGGAAT TTCCACAAGA GCAAGCTAGG N 111

SEQ ID NO:4331
 LENGTH:264
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS05149

SEQUENCE DESCRIPTION:

GATCTGACCT GTTTATTGTT GCGCTTGTT GAAAACGAGC TTTCTTTCCC ATGATAGTGC 60
 TTCGTTTTTG AAGTGTTGAA GCTGTGCTCC CCTNAAATCG TGGCAGGAGA GATTAAGGTA 120
 ATTACAACAC TCAGTTCTAT GTCTTACAAG CACTTTGTCT TGTCTCTGCA AGAAAATTCG 180
 ATNCCNGTCA TNTCCATAA AATACAGNCA TTTTACCANC ATANTATGCT TTGATTGANG 240
 CAGCANTATG CTTTGGGCA GTAN 264

SEQ ID NO:4332

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05150

SEQUENCE DESCRIPTION:

GATCCTCCCG CCTCAGCCTC CCAAGTAGCT GGNATTATAG GTGTGTGCCA CTGTGCCAAG 60
 CTAATTTTTT AATTTTNGT AGAGATGNGA TTNACCATG TNACTCAGGC TGGTCTCAAA 120
 CTCCCAGCCT CAAGCNATGC TCCCACCTCC ACCTCCCAA GTGCTGGGAT TACAGGCGTG 180
 AGCACCATAC CTGGCGCATG CATATTTTTN AAGAGTACCC ACTGGNGTCT AATATATAGC 240
 CTGGGNTACC TGGGATGAN 259

SEQ ID NO:4333

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05151

SEQUENCE DESCRIPTION:

GATCTAACCA ATTTGAATAT GACTTCCTAC TCCAACGTAT CACCAAAACA CTGAAAAGCA 60
 ATAGCTGGTT TGGTTGTTAG AAATGGTGTA ATTAATGGTT TTNGTTAGTT CACTTCAGCT 120
 TAATAAGTAT TTATNGCATA TTTGCTATGT CCTCAGTGTA CCACTACTTA GAGATATGTA 180
 TCATAAAAAT AAAATCTGTA AACCATAGGT AATGATTATA TAAAATACAT AATATTTTTC 240
 AATTTTGAAA 250

SEQ ID NO:4334

LENGTH:260

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05152

SEQUENCE DESCRIPTION:

GATCGCATTT ATATAACATT CTTGAGGTGA CAAAATTATT GAAATGAAGA ACAGATTAAT 60
 GGTGCCAGG GATAGGGACT GGAGGGGGTG TGGGGTATGT ATGACTATAA AGGGATGACG 120
 CAAGGAGTTC CTTGTGCTG ATGGAACAGT TCTATATGAT TATGATGATT ACGATGTTGA 180
 TTATAACATT TGATTATGAG GTTAAGCACA TGAGTCTTTA CCTGTNCTGA AGTTGTATGG 240
 ACCTACATAC ACACAAATGN 260

SEQ ID NO:4335

LENGTH:261

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05153

SEQUENCE DESCRIPTION:

GATCAAGACG AGCCTGCACC GCCTGAAGCC CGACACGGTG CCAGCGCCCT GCTGCGTGCC 60
CGCCAGCTAC AATCCCATGG TGCTCATTCA AAAGACCGAC ACCGGGGTGT CGCTCCAGAC 120
CTATGATGAC TTGTTAGCCA AAGACTGCCA CTGCATATGA GCAGTCCTGG TCCTTCCACT 180
GTGCACCTGC GCGGGGGAGG CGACCTCAGT TGTCCTGCCC TGTGGAATGG GCTCAAGGTT 240
CCTGAGACAC CCGATTNCTG N 261

SEQ ID NO:4336

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05155

SEQUENCE DESCRIPTION:

GATCCTCAGT AAATCTGAG AAATAATGAA TGTTGGTTGT TTTAAATGG TAAATNTTGA 60
GGTATTATGT TATGTGGCAA TAGATAGCTA ATATATACT NATTTGANTC AAACAATATG 120
TTAANTTAAA GCNCAGAAGA NTAAA 145

SEQ ID NO:4337

LENGTH:264

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05157

SEQUENCE DESCRIPTION:

GATCTAAGGA AAGAAATGGA GCAACTAGTG CTTGACAAAA AGCAAGAGGA GACAGCCGTA 60
CTGGAAGAGG ATTCTGCAGA TTGGGAAAAA GAACTGCAGC AGGAACTTCA AGAATATGAA 120
GTGGTGACAG AATCTGAAAA ACGAGATGNN AACTGGGATA AGGAAATAGA GAAAATGCTT 180
CAAGAGGAAA ATTAGCTGTT CCTGAAATAG AAGAATAATC CTTAACAGTC TGCAAACTGA 240
CATTAAATTC TAGATGTTGA CAAA 264

SEQ ID NO:4338

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05158

SEQUENCE DESCRIPTION:

GATCGGGGCG GGGAAACAGC NGGAAGANGG NCGCACCCGG TCTGACTACA ACANCCAGAA 60
AGAGTCCACT CGGCACGTGG TCCNGCGCGT GAGGGGGGGT GTCTAAGTN 109

SEQ ID NO:4339

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05159

SEQUENCE DESCRIPTION:

GATCAGTATA CAGTGTACGT AACTACACC ATCCTCAAAC CCCGGAAAGC AAAGCAAATC 60
AGGAAGAAAA GTGGAGGTTA GCAACACACC TNTGGCCCCA AAGNACAACC ATCTTGTTAA 120
CTATTGATTG CAGTGACCTG ACTCCCTGCA AGTCATCGNC TGTAACATTT GTAATAAAGG 180
TCTTCTGNCA TGAAA 195

SEQ ID NO:4340

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05160

SEQUENCE DESCRIPTION:

GATCTAATAT TCAGGAATTT TTCTCCTAAA GACACCCAGT AAAAATATCA CAAA 54

SEQ ID NO:4341

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05161

SEQUENCE DESCRIPTION:

GATCACTGTG TAAAACTAAG TNTCTCTAAA TGTAATGCAT CGATTTAGTG TCTGGAACAT 60
AATAAATATT TGCTCTCATG ATTGCTAAA 89

SEQ ID NO:4342

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05162

SEQUENCE DESCRIPTION:

GATCTACATC CCCATCCACC TATACGGACA TCTTTTCCGT TGTGGTTTGA GAATGTTCTT 60
ATAATAAACC CCTCTGCTTT GTTCTTAAA 89

SEQ ID NO:4343

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05163

SEQUENCE DESCRIPTION:

GATCGTCTTG TATGGTGAAT TTTCTAGGAG CGATGATGTA CTGTAATTTT ATTTTAATGT 60
ATTNNGATTT ATGATTATNT ATTAGTTGNN TTAAATGCT TN 102

SEQ ID NO:4344

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05164

SEQUENCE DESCRIPTION:

GATCAATTNT GCANCANACA NCAATCTTAA CCATTTCCAG AAACACTAG TTATATTAGG 60
CACGTTTTTAA AAACCTAAAC AAAATAAAGG CCATCCCAA CCCTGGGCTG TTGTCGGGT 120
ATTTTGCAGC AGGGTTGTGT TCAAAANCTT CCTTTGACTC CCTGAGACTT TATCTNCTNC 180
TTGCAGAGTA AGATGGAAAG CCANTCAGTG TTTGCNGTAA TGTAATACAG NGTAGTGCCA 240
TTCNGGNN 248

SEQ ID NO:4345

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05165

SEQUENCE DESCRIPTION:

GATCCAAACT TCTACAGCAA AAACCTACTT CTTTTAGGAA AGACATACTT GAAACTACAC 60
AACAAAAAGC TTGCTGCTTT CTGGCTAATG AAAGCCAAGG ACTATCCAGC ACACACAGAG 120
GAGGATAAAC AGATACAGAC AGAAGCTGCT CAGTTGCTTA CAAGTTTCAG TGAGAAGANT 180
TGAGAACTTT TCAGAGAAGA TTTATGAAAT AGCTAATAAA CATTGCCTTT TCTTTTAAA 239

SEQ ID NO:4346

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05166

SEQUENCE DESCRIPTION:

GATCAAAAAA TGTCTCCGCT CAGGGATTTA TGGTGGATTA TTGCAGACAN TGCTAAAAAT 60
ATAGAGCACA AGACAAGTTT ACTAAATTAA AATTTTATTT TTTGAGAAAC TGTTATTTGT 120
ATAAATTATC AAGATTTGTA GGCTTTCCTT TNGTAGAAAT AATTGTTTTA TGTGCCAGAG 180
AATTTCAATT TNGTTTTTCAA CAATAAAGCA TTGATAAGAG AAA 223

SEQ ID NO:4347

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05168

SEQUENCE DESCRIPTION:

GATCATTTGT TTATTAAAT GTGTCCTATT ACACAGTGAG TTAACCTCA AA 52

SEQ ID NO:4348

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05169

SEQUENCE DESCRIPTION:

GATCCGAGCG ACCATGGTGG CCCGGGTGTG GTCGCTGATG AGGTTCTCA TNAAGGGAAG 60
 TGTGGCTGGG GGGCCGTCT ACCTGGTGTA CGACCAGGAG CTGCTGGGGC CCAGCGACAA 120
 GAGCCAGGCA GCCCTACAGA AGGCTGGGGA GGTGGTCCCC CCNGCCATGT ACCAGTTCAG 180
 CCAGTACGTG TGTCAGCAGA CAGGCCTGCA GATACCCAG CTCCCAGCCC CTNCAAAGAT 240
 TTTACTTTCC NATCCGTGAC TCCTGGAATG CAGGNATCAT GGACGGTTGA TGTCAGNTCT 300
 NNTNGGTGGC CCCTTTCAA GGGNCNGGTG AGTN 334

SEQ ID NO:4349

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05170

SEQUENCE DESCRIPTION:

GATCCATCAA ATTGAACAAT CTGTTGTAAT TAAAAATTTT GGCCACTTTT TTCAGATTTT 60
 ACATCATTCT TGCTGAACTT CAACTTGAAA TTGTTTTTTT TTNCTTTTGT GATGTGAAGG 120
 TGANCATTCC TGATNNNGGC CTCNNN 146

SEQ ID NO:4350

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05172

SEQUENCE DESCRIPTION:

GATCTCAAGC CTCTTCTGAA CCCCAGGCTT TCTTGAGTCT CCATATGAGC ATTTGCCTCT 60
 GTGGGCACAA CTTCAAGTGT CCTTTGTGAG GAAATGTGCA TCTCTGGNTG GTGAACTTCC 120
 ATCCCTCAGA GAGAAATAGA AGCACAAATT TGAAACAAGC TGTCTGTCTG NGNNNNNNCT 180
 TTATGTCTTG GAAACTTTAT TTATCCATCC AAGCTTTNTT TTTTTTTTAG CCTTTNNGGG 240
 CAGGNAACCA TCCAGGN 257

SEQ ID NO:4351

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05173

SEQUENCE DESCRIPTION:

GATCTGTCTA CTGAGAAGAC CCAAATCTTG GTTCTAAAT GCCATTCTTC AATAAAAGGA 60
 ATTGGGTTTC AAA 73

SEQ ID NO:4352

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05174

SEQUENCE DESCRIPTION:

GATCTCCTTC TCCNTCCTGT CCTGTCCTTG CCCCTCAGGA CTGCTGGAAA ATAAATCCTT 60

TAAAAATAGTG AAA

73

SEQ ID NO:4353

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05176

SEQUENCE DESCRIPTION:

GATCCAAGCA GGGGGATGAA AAACCTCAGCA GAGAAATTCG AGACCATTTT CCAAGACTNT 60
CCCCTTCTCC TCAGGACCCC CTGGCTCAGT NCTTGAAAAA CGGTGTCATA TTTAGTCAGA 120
GGCCCCACCC CCAGGAAGCA TGGATGGGGA TGAAGGCACA GCGTCTCCA ACCTCAGAGG 180
CCCTTTGTGG GGTCAAGACA CAGAGTGGGN AGANGAGACT GATGCAGGCC TACCAGTNCC 240
TGGCTTTTGT TCTGGGGCTG GAATAAAGAG GTGNCTTCAG CTGTTTGGNN CGAGAGGCAG 300
GGTAAA 306

SEQ ID NO:4354

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05177

SEQUENCE DESCRIPTION:

GATCAACTGG AACCTCTGTA TCATGCGGCT GAATTCCTT TTTCTTTAC TCAATAAAAG 60
CTACATCAGA CTGAAA 76

SEQ ID NO:4355

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05178

SEQUENCE DESCRIPTION:

GATCAGGCTT TTAGGACCTA GGAAACAAAT AAAGAGGAAT TTGTTGCTGA AA 52

SEQ ID NO:4356

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05180

SEQUENCE DESCRIPTION:

GATCCTTATT CTAGCTACAA GTCAAAGATA ACTCCTGGTC CAGACAAAAC ACCTGGCCTA 60
TCACAAGCTG ACTAAAAATC TGCACTTTGG GCCAGCGCAG GCAACAGTAA CTNTGACAGG 120
TTCAAATTAG ACCTCACACT TTCTACTCAT ATTCTAGTCA CTGGACCCAT CTGANTCAGT 180
AATCCCTNCT GCCCGGTCCT GGAGTAACTT CTTAGAGATA TTATAGCAAG TGGCAAAANT 240
AAAAGAGGGA TTTGCTANGA NTATCAAA 268

SEQ ID NO:4357

01369

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05181

SEQUENCE DESCRIPTION:

GATCTCAAAT ATAAATTTGA GATTATACAT GTAGTTATGT ATAGNGNCAT GTAGTTACAC 60
ATAGTTTTGT ATTNCTGT TTTTTCTCA TATGAGCATT TNCTATTAA NGTN 114

SEQ ID NO:4358

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05182

SEQUENCE DESCRIPTION:

GATCTACACG TGTTGTTTTG TTTTNCCTT ATTGATGCAC GNATGCTTTT GAACAGTAGA 60
GNGAAATGCT AGACATGGAG AATCTGCTCT GTTGTCTTN TATACATTC TGTAGTTAAC 120
AGAACTGT AATGTGCCTT GGAGCTTAGT AACTNGTAAT AAATTCAATN GATATTAAA 179

SEQ ID NO:4359

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05183

SEQUENCE DESCRIPTION:

GATCCTAAAT CCTATGTAGG CTNNGGTTAT TAGTGTATAT TTGTGTCTTA AAACAATTTT 60
GAAAGTNAAG AAAATATTTT TTAAG 85

SEQ ID NO:4360

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05184

SEQUENCE DESCRIPTION:

GATCTNATTT TGAGATTAAA AAAAATACTT CTAGCTTTAG CCAGGTGTGC ATGTNGCTGC 60
CATTTTGCAT TTTTGAATCA TCTTGTGTAA TTGTCACCAT GAAAGTGTTA CTCAGAATNG 120
TCATAGATTT NNTNTTCTTT GTGCAAAAAC ATGGAAAATT GTCAGTACT TTGTTTTGAG 180
GTTTCCCCGG NNNN 194

SEQ ID NO:4361

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05185

SEQUENCE DESCRIPTION:

GATCTGCTGT ATGTTACAGT TATGTAATTT GACTTGTTTC AAAATTATTA AAGTTTTAAG 60

TGTATGCATT CTA CTGGTCA ATAAGTAAAT ATATTCAGGC TCTGAATGTA GACAGATAAA 120
TATATAAATA TAGAAAGTAC ATTTGTTAGA ATACAAACAA GAATAAAAAT TGAGTACAGA 180
NTGAAAACCT TATTAAATTT TATCACTCCA TATAAA 216

SEQ ID NO:4362

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05186

SEQUENCE DESCRIPTION:

GATCAAACTC AAGCTCACAC CTGTACCTGA TGGGAATGAA CATAATGTGA AGAAACTTAT 60
TTCCAGTGT AAACGCAGTT GTACAGAAAA AAAATGTTTT GGGTATAAAT CTGGGTTTTTC 120
AAAACCAGCT TTNTTCTATA TATAAATNAT GCTGCTATTA CAGATTTAAC ATTTNCTGTT 180
AAAGGAAAGT CTACATTTTC TGCCTGTNCA GAACTGTTTA ATAGCAGTNN CTCTTGAGTG 240
TATTTNCCTT GGTATGTTTT TNAACCTATT TTCCTTNAAG CCGAAAATAT TGCCAATTGG 300
ATANGGTTAG CCTTANNAAG TNNAATAAAN NAN 333

SEQ ID NO:4363

LENGTH:185

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05187

SEQUENCE DESCRIPTION:

GATCAGCCAG TCTCTTTCAT CATCAAGCAG ACATACTCAA GGTACCAACA CAGCAAAGGC 60
ACAAAATGTC TCTATATCAG TATTTTTCAT GGTATATGTG AGACCCATTA GTGAGGCATG 120
AAATCAATTC TGTGAGTCAC AATGAACATT TGTCTAAAAA ACATAATAAA NTGTAAAATA 180
CCAAA 185

SEQ ID NO:4364

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05188

SEQUENCE DESCRIPTION:

GATCCTTTCC CATTTATTCT GGAAGATGT TTTTCAAAC CAGAGACAAG GACTTTGGTT 60
TTTNTAAGAC AAACGATGAT ATGAAGGCCT TTTGTAAGAA AAAATAAA 108

SEQ ID NO:4365

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05190

SEQUENCE DESCRIPTION:

GATCATTTGG CTCTTTTTTT CCTTCCAGAA GAGTNGCATC AACAAAGTTA ATTGTATTTA 60
TGTATGTAAA TAGATTTNAA NCTTCATTAT AAAATATTGT GAATGCCTAT AACTTGTTTN 120

NCAATGTGNT TGTGTGTGTT TCTAAGGACT TTTTCTTNGG NTTGCTAAAT ACTGTAGGGT 180
TGAAAATGCT TCTTTCTACT N 201

SEQ ID NO:4366

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05191

SEQUENCE DESCRIPTION:

GATCCTTCAT GGACANTATT CTAAGTATA CGTAGACACT TACTTGGAAA TTTTGGACA 60
TTATATTAAA TGAGTGCTAT CTGTGAAATT GGTTATATTA GGTGGCTNNN NCTAATGN 118

SEQ ID NO:4367

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05192

SEQUENCE DESCRIPTION:

GATCTGAGGT CTCAAGCTAG GAGAGACTGA GAATTTTAAT CAGTTTGGGC ATATAGTTTG 60
GACTGAATCA CATCTGTAGT ACTTAGCCAA AGACAATTTG GAGGAGAATA TCAGCCTTCT 120
GGAAGTAGCT ACTTCCTGNT CAATGTAAAG TGTCGCAGAT ATTCAATAAA ATGGCAACCT 180
GTTATAATTT TNTTGAATAT CAGCCTTCTG GNAGTAGCNA CTTCTGTAN CAAANGTAAA 240
GNGTCGCAGN TATTCAATAA AATGGCAACC TGTTTTN 277

SEQ ID NO:4368

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05194

SEQUENCE DESCRIPTION:

GATCTCTTGA CAANTGTGTA TGTTAACTTT TTAGCACATG TTTTGTACTT AGTACACGAG 60
AAAACCCAGC TTTCATCTTT TGTCTGTATG AGGTCAATAT TGATGTCACT GAATTAATTA 120
CAGTGTCTTA TAGAAAATGC CATTAAATAA TTATATGAAC TACTATACAT TATGTATATT 180
AATTAAAACA TCTTAATCCA GAAATCAAA 209

SEQ ID NO:4369

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05195

SEQUENCE DESCRIPTION:

GATCGTGTCTG GAGACTNTNA CACAGTTTAA ACACATCAAT AAATACTTTA ACTTCAAA 58

SEQ ID NO:4370

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05196

SEQUENCE DESCRIPTION:

GATCGAGGTA GTAAAGGCCA TCCACATTTT AAAGGGTTAT TTGTCTNTNN TATAATNCGT 60
TTGCTTTCAG AAAATGTTTT AGGGTAAATN CATAAGACTA TGCAATAN 108

SEQ ID NO:4371

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05197

SEQUENCE DESCRIPTION:

GATCAACAG GGACACAAAA GCAAGTATCA TGGGAGGAAC TTGAAATCTC TGNGGACAGC 60
AGAAGCTGAC TTCAACTCTN ATAATTGTGG CATCCATAAA TTGCAAATAT AGCCCTGAAT 120
AGATACACAC AAATGTCTAT AATGAAGGCC CAGCAGAATG GAATGTGTGA CCATCTTCAG 180
GAAGAAAATN 190

SEQ ID NO:4372

LENGTH:241

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05198

SEQUENCE DESCRIPTION:

GATCAATCCC TAGTAAAAGC CCTGGACACC TAGGCATGGG TGAGCTACTN TGGTTGGTAA 60
TACTCTGTGC ACACATCATT GTAGCCACAC ATCATTGCTG GGAGAATTAA GCATTATCCT 120
GAAGACTCTG CCAGGAGAGG ATAATTGGAA GTTCTCTTGG ACCTTACCTT ATGTGCCTTT 180
NTTCATTGCT GATTTTAATC TGTATCCTTT CACTGTAATA AACTGTAAC TGTNGTGCAA 240
A 241

SEQ ID NO:4373

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05199

SEQUENCE DESCRIPTION:

GATCGTTCAT TGCCTTTCCA GGGTTATTTA GTAAAGTTTG TTGAAAACAA A 51

SEQ ID NO:4374

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05200

SEQUENCE DESCRIPTION:

GATCTCAGGT GATTCACCG CTTCTGCCTC CCAAAGTGCT AGGATTACAG ACATGAGCCA 60

CCGCACCTGG CCATACAATT GCCTTCTATA TGTTTTNNAT TTAATATGAC ATTTGTATTT 120
CCCCATGTTA TTAATAAATT CTNTATAAGC AAA 153

SEQ ID NO:4375

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05201

SEQUENCE DESCRIPTION:

GATCACCCCA CCCTGTGAAG AGGCAGTTGG TGCTGGCAGT AAGCTGGTTT CCTCCTCTCC 60
AGGGTTTTCC TAGTAATAAA GGTGTTNCTG TTGANGCCGT AAA 103

SEQ ID NO:4376

LENGTH:390

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05203

SEQUENCE DESCRIPTION:

GATCACATTC ATTCCATAGG TAGCTTTACG TGTGGCTACA ACAAATTTTA CTAGCTTTTT 60
CATTGTCTTT CCATGAAACG ANNTGANGAA AATGATTTTC CCTTGCAGG TTGCACACAG 120
TTTTGTTTAT GCATTTTCCTT AAANTTAATT GTAGTCTCNA GGATACAAAC CATAGTAGGC 180
AATACAATTT TAGAATGTAA TATATAGAGG TATATTTAGC CTCTTTTAGA AGTCAGTGGA 240
TTGAATGTCT TTTTATTTTA NNTTTTACAT TCATTAAGGT GCCTCGTTTT TGACTTTGTC 300
CATTAAACATT TATCCATATG CCTTTGCAAT ANCTAGNTTG GTGNAAAGCT AACCAAGTGT 360
TGTAACCANT AATCCNTTGT TTNGNGGTGN 390

SEQ ID NO:4377

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05204

SEQUENCE DESCRIPTION:

GATCACATGC AGGACTCTTT CTTAATGCAG CCTGAGACAA ATCTTGCAAT ATGAAGAGAT 60
GATTTCCAGG TTTTATTGAA TAAATGAATT GTAATTTTAA CTTGAAATTA TCTTATTTAG 120
TATAATAAAT ATTACAATAT TAAA 144

SEQ ID NO:4378

LENGTH:386

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05205

SEQUENCE DESCRIPTION:

GATCCCACAG CGAAACACTG GCCACTGGCT ACCAGTATTN CTTCCAGAG CTAGGGGCTG 60
CCTTAAAGGA AATTGTAGCC TAAGTAGGTC GTGGCAAGGG CCTGAGGCCT GTTCCTCACA 120
GGCTTCCAGG TTAGGCACTG TGAATAGGCT CAGCTCCTCT AGAGAGCTGA AGCCATCTGG 180

TTCTTAGATT CCTCTCCCAG TCCTCTTTCC CATTGTTCTG TTGCTCCACC TTATTGTCTC 240
AAGGCCGTAA TCTCATCAGG TTGGGACATT AATCTTTTCA ACTCCTTTGT AAAGATTTCC 300
CAGTTTGGTT TCTCTACATG TNCTGCAGCT GGCCNCAATT CTCCTTTNAC GTTGTGTAGA 360
GAATGNTCTG CAGTTTTAGG GCAAGN 386

SEQ ID NO:4379

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05206

SEQUENCE DESCRIPTION:

GATCTAAACG AAAAATAGTT TCTTGTTTAA ATTACATAA GGCAATNAGA TATGGAAAGA 60
TGACAAGATA CGTATAAACA TTGGTTTGCA TTTTATTAAA TNATTCTAAT GCAAATCTTG 120
TATAAAGAAC CCATGATGTT TTGTAAC TTAATTAATAA TGTTCAAAAT GAAA 174

SEQ ID NO:4380

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05207

SEQUENCE DESCRIPTION:

GATCTTGGTC AATAACTGGG AGATGGACAA ACTAGAGATG GAAGATGCAG TCACATTTTT 60
GAAGACTAAA ATCTATTCAG TAGAAGCTCT TCCTGTTGCT GCTGTAAATG TGCAAAGCAC 120
ACAATAAAGT GAAAATCAAC CTTTTCATAT TAGGAGACAT GCATTGTAA AAATTAATAA 180
AGATGACAAG TCAGTTGTCA ATGGAAA 207

SEQ ID NO:4381

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05208

SEQUENCE DESCRIPTION:

GATCAGCACC TTGGCCGTGA TTCCCAAGGT CCCAGCCAAA GCAAAGGGCC AGTTGTTTCA 60
GTTTAAACAG ACATGTCTTT AGTCTAATAA AATTAGTTAA CTGCCAGTAA AGTTATTTGT 120
TAGCTTTGNT GAAAGCTATG NNGGTATCTT TCCCTAATCA TCAAAGTAA TAAAAANTCA 180
TTTCTNAAA 189

SEQ ID NO:4382

LENGTH:502

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05209

SEQUENCE DESCRIPTION:

GATCTGTTCT TTTAAGTTG ATTCGGGAGT GGCATTCTTT TATACCCAAA GACTGTAGTG 60
CATCTTGAAG AGCTCAAAGC ACATGACCGC ACAAATGCTT ACAGGGTTTC CTCCCAGTA 120

ATCCAATCTC ACTCCCCTTG TAAGGGAATT CTGGGGCAGC TATGGTTTGA GTATGCAGTT 180
TGCATCGTGT TTCTACCTTT AGTACCTTGC CACTCTTTTA AAACGCTGCT GTCATTTCCC 240
ATTTCTTAGT ACTAATGATT CTTTGATTCT CCCTCTATTA TGTCTTAATT CACTTTCCCT 300
NCCTAAATTT GGTGATTTGG CATATCAAAT TCTGGTAAAA TNGTTTTNGG TAAANCATAT 360
TTACCCNCAC TTGGGGTAAA TCCCAATTCC TGGNTAGGGN CTTTTAAAAA NGGGTTTTTN 420
NTTAATNGGG NNAATCCAAT TATTAATAAN GGGGGGNCCN TTTTTNAAG GGNGGAANAA 480
ANGGNGAGGG GGNAGNTNGN GN 502

SEQ ID NO:4383

LENGTH:383

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05210

SEQUENCE DESCRIPTION:

GATCTCTGGT CAGAGTGAAC TCTTGCTTCC TGTATTCAGG CAGCTCANAG CAGAAAGTAA 60
GGGGCAGAGT CATACGTGTG GCCAGGAAGT AGCCAGGGTG AAGAGAGACT CGGTGCGGGC 120
AGGGAGAATG CCTGGGGGTC CCTCACCTGG CTAGGGAGAT ACCGAAGCCT ACTGTGGTAC 180
TNAAGACTTC TGGGTCTTN CCTTCTGCTA ACCCAGGGAG GGTCCTAAGA GGAAGGTGAC 240
TTCTCTCTGT TTGTCTTAAG TTGCACTGGG GGATTTCTGA CTTGAGGCCC ATCTNTCCAG 300
CCAGCCACTG CCTTCTTTGT AATATTAAGT GCCTTGAGCT GGAATGGGGA AGGGGGNCAA 360
GGGTCAGTCT NTCGGGGTNG GNN 383

SEQ ID NO:4384

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05211

SEQUENCE DESCRIPTION:

GATCAAACTG TTGGAGGAGA AGCTGAAGGA GGCTGAGACC CGAGCAGAGT TTGCCGAGAG 60
GTCTGTGGCA AAGTTGGAGA AANCCATCGA TGACCTAGAA GAGACCTTGG CCAGTGCCAA 120
GGAGGAGAAC GTCGAGATTC ACCAGACCTT GGACCAGACC CTGCTGGAAC TCAACAACCT 180
GTGAGGGCCA GCCCCACCCC CAGCCAGGCT ATGGTTGCCA CCCCACCCA ATAAACTGN 240
TGTTACTAGN CTNTNAAA 258

SEQ ID NO:4385

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05212

SEQUENCE DESCRIPTION:

GATCAATGAA AGGAGACATC TGGAGTGTGC GTGCTTCTTC AGAGGGACGG GTGATGGGCA 60
GATTGGAAAA AGCACCAGCAG ATGGGAACCT TAATCTTTCT TTTCTAAAAT TGATGCTATG 120
AAAATTTGCG TTTTCTGTAA CTTGTAAAAA CTAAGTTG CTTGTCTACT GAAA 174

SEQ ID NO:4386

LENGTH:62
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS05213
SEQUENCE DESCRIPTION:
GATCAGGCAA AAATAGTTTT CCAAAGTTAT TTTTAATAAA GTATATACAA AATTCTTATA 60
AA 62

SEQ ID NO:4387
LENGTH:217
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS05214
SEQUENCE DESCRIPTION:
GATCTAACGC CACACCTCCG TGAAAACACA ANTCNCACAG CAGGAACCAC NTGAACCTGG 60
ACATCAGCAG TTTATTCAGC AGATGCTTCA GGCTCTTNCT GGAGTAAATC CTCAGCTACA 120
GANTCCAGAN GTCAGATTTT AGCAACAACCT GGAACAACCTC AGTGCAATGG GATTTTNGAN 180
CCGNGAAGCA AACTTGCAAG CTCTAATAGC ANCAGGN 217

SEQ ID NO:4388
LENGTH:95
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS05215
SEQUENCE DESCRIPTION:
GATCTATGCA GACAACTGTG TATTCTGTTT TATAACAGTT TGTTTGAATT TACTTACAGT 60
TAAAAAATTT AAATATATTT ATGTTTGTAC GGAAA 95

SEQ ID NO:4389
LENGTH:192
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS05216
SEQUENCE DESCRIPTION:
GATCTGGGTG AAGGGGAGAA CCTGCCATCT TATCCCTACC CCCCCGGGGC CCTCAAGCTT 60
ATTTTCTTGT TGAAGAAACA CAAAACCCTC GAGATTTCATG TACTGTATGT TGGAGAAAAA 120
AAATTACCTA ACTGTTCCCC CAAAAAAGTC AGTATNTTTT GTACTTTGTA AAAGTGTTGG 180
TTAAAAATGA AA 192

SEQ ID NO:4390
LENGTH:135
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS05217
SEQUENCE DESCRIPTION:

GATCTGCAGC CTTTTGGGTA TCAAATGGGT CAAAACCATG GGACCTGCCA CCTCCCATCA 60
GCAATTCTGG AAATGCACTA TTTCTACTGG TGNTCTTGCT TTTTTTTTTT TTNNATTTTC 120
TNGNTGAANT GCCAN 135

SEQ ID NO:4391

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05218

SEQUENCE DESCRIPTION:

GATCGTANTT AGTCCTTTTC ATCTCAGCTG CTCCTTAAAT CAGTGCAACC CCTCCAAATT 60
AATGTGAATT GAAACTTGCA TTGCTTTTCA ACTTAATTGA ATACTTACTA TATGTGAACC 120
ACTGCACAAA ATAGGGGAAG AAGATGTGGG AGACAAAGAT GTGGAGCCTG TCTTCAATAA 180
ATTTACAGTT AGTTTCAGGG TACATTGTTT TNCTNCTGCT GTTAATTAGG TGTATCCCCA 240
AGACAATAAA TACATGGNTG GGAAAGTAAA 270

SEQ ID NO:4392

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05219

SEQUENCE DESCRIPTION:

GATCAAAATT GGNTAAATTC TATTGTAACA ATTCGTTGG TCATTTTGGG CCATAAAATT 60
TTTTTGTAAT AGGAATTTGT ATAAAGCATT ACTCTTTTTC AATAAATTGT TTTTAATTT 120
AAA 123

SEQ ID NO:4393

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05220

SEQUENCE DESCRIPTION:

GATCNCACCA GTNTNCTNCA NCCTGGGCCA CAGAGCAAGA CCTTGACTCA AAAACAACAA 60
CAACAACAAC AAAAATTCTT GAAGATTTTG CATTCTGTCC CACTATCCAT TGGTTTTTCAT 120
GTCAAGATAA TGTGAGAAAT TCTTTACAAT TGCTTCCAGA AGGANTAGCC TTTTGATTTA 180
GTGCACAGGT GTCCAGTCTT TTGGCTTCTC AGGCCACAT TGGAAGAAGA ATGCTCCTGA 240
GCCACACATA AAATACACTA NTGNTAACAA CAGCTGATGG AGCTTAAA 288

SEQ ID NO:4394

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05221

SEQUENCE DESCRIPTION:

GATCCTNCGT TCTNTTGTTA TAGATTAGTT TGC GTTTCCT ACAATTTTAT ACACATGGAA 60

TAATACTATA GGTACTCTTG TTTGGCTCCT NCCATCCAGC ATAATAAGTT TGAGATTCAT 120
NCATGTTGTT ATATGCGTCT ATGTTCAATC CTNNNN 156

SEQ ID NO:4395

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05223

SEQUENCE DESCRIPTION:

GATCCTNCTT TTCCTTCATG NCAGCACAAG TGCTCACCGG GGCCAGAGCC AGGGCATGGA 60
TATGACAAGC AGGGCAGCCT GGACACTGCC CTCACAGGAC AGCGCCAATA ACAATACAGT 120
GTCTGAGTAT CTCCAGGGGA AAAAATAAA 149

SEQ ID NO:4396

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05224

SEQUENCE DESCRIPTION:

GATCCTGCTT GGNCTATCAC AGAGCATTGA CCATTGGCTT CCCTCATCTG AGNCGTGGGA 60
GAGCANACTG GATAGATGAG AATTGTTTTA AAACAATTGT GAACAGAAAC TGNAGATGGT 120
ACAGTNTAC ATCTGCACCT GCCCTTTTTT CATAACCACAA AAGTATTTTT NNAGTACTGT 180
ACTGGACTTT TTGCNAGTNN CTAN 204

SEQ ID NO:4397

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05227

SEQUENCE DESCRIPTION:

GATCCTGATG TATGAGGAAA AAGCGAGAGA AAAGGAAANG CCAACAGGCC CCCAGCCAA 60
GAAAGCTATC TNTGAGTTGC CCTGATTTGA AGGGAAAAGG GATGATGGGA TTGAAGGGGC 120
TTCTAATGNC CCAGATATGG AAACAGAAGA CAAANTTNTA AGCCAGAGTC AACAAATTAA 180
NTAAATTACC CCCTCCTCCA ANAANTANTT TNN 213

SEQ ID NO:4398

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05228

SEQUENCE DESCRIPTION:

GATCCATCTG AGGAATCACT CTGTGTTGCA CTTATGCCCT CATAAAANAT ATTTATTGAA 60
GAATAAA 67

SEQ ID NO:4399

LENGTH:70
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS05229
SEQUENCE DESCRIPTION:
GATCAATGCA TTTNATACGG ATATAGACCT AGGGCTCTGG AGGGTGGGGN ATTGTTAAAA 60
CACATGCAAA 70

SEQ ID NO:4400
LENGTH:148
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS05230
SEQUENCE DESCRIPTION:
GATCTCTATA GAGGCTGGAA TGGCCACAGA GAATCTAAAT NTGAAAACAA ACATGTCCTG 60
AGGGTGTGCT CCAATACCAC CCNNTAATAC TCTCCTGAGA TGTGAAGGCT NGAAATGAGA 120
ATGCCATNTT ATTGTNACTT NCAACG 148

SEQ ID NO:4401
LENGTH:210
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS05231
SEQUENCE DESCRIPTION:
GATCCTTGTT TTGAGCTCTC AGAATCACTC AGACAACATT TTGTAAGTGC TGCTGTTGCT 60
TTCTACATAC ACCTTATAAA GTGACATTTT AAAAGAAATA AGGTGCCACA GTTTTAAACC 120
AGAAGGTGGC ACTCTGTGGC TCCNTGTAGT ATTATAGCTA TACTGGGAAA GCATAGATAC 180
AGCAATAAAG TACAGTAATT TTACTTTAAA 210

SEQ ID NO:4402
LENGTH:71
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS05232
SEQUENCE DESCRIPTION:
GATCCTGTTG CAAACTGTGA ATATTCTGAT GATGCCAGTA CAGTTTGATT TATTAAATGT 60
GGGTCCTCAA A 71

SEQ ID NO:4403
LENGTH:240
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS05233
SEQUENCE DESCRIPTION:
GATCTGAACC CGTCTCCCGG GTGCTGTAAA TAGTCTGATA AACGTTTACA CAGTCTAAAA 60

TTACCCTTTA TATTTGCTGA ATACAACTCA TCTTTTGTAG TTTAAAATTT CTATTGTTTT 120
GGAGCTAGCT GTGAGTTTCT AGAAGTGTAC AGAGTTGCTC CNGTGTCCC GGGTCANGTT 180
GAGTAGGGAA TAAATAAATC TGATGCNGCC TCCTGAGGCT GCCGGGGGGT TTCTGCTAAA 240

SEQ ID NO:4404

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05234

SEQUENCE DESCRIPTION:

GATCAAGNAT ATTTTTTATT TTTAAGAAAG CATAACCAGC AATAAAAATA CTATTTTGA 60
GTCTAAA 67

SEQ ID NO:4405

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05235

SEQUENCE DESCRIPTION:

GATCTAATTC CAAGGACTTC TCCACAGCTA AGTNAGATGC CTCANACCAT TAGGTGATGC 60
TTTGGACAGA ACAGAGTATT TNAATCTTGT GTTTAAAGCA ATTCCTTGGC TTCGGGCTCCT 120
CACCACCTTC TATGCCAGTN TCCCATTTAT GTCCCTAGTA ATGCCTATGC AAA 173

SEQ ID NO:4406

LENGTH:263

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05236

SEQUENCE DESCRIPTION:

GATCCCAGCA GTGATGTTGG TTGAGGCAGC AAACAGATGG CAGGATGGGC ACTGCCGAGA 60
ACAGCATTGG TCCAGAGCC CTGGGCATCA GACCTTAACC ACCAGGCCCA CAGCCCAGCG 120
AGGGAGAGGT CGTGAGGCCA GCTCCCGGGG CCCCTGTAAC CCTACTNTCC TCTNTCCCTG 180
GACCTCAGAG GTGACACCCA TTGGGCCCTT CCGGCATGCC CCCAGTTACT GTAAATNTGG 240
CCCCCAGTGG GCATGGAGCC AAA 263

SEQ ID NO:4407

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05237

SEQUENCE DESCRIPTION:

GATCAGAATG TTCTAAATNT TGA CTAGTGA CTTTTTATTA TGAGTTAATA TAGTTTAGCA 60
GTAAA 65

SEQ ID NO:4408

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05238

SEQUENCE DESCRIPTION:

GATCTCTATA TTAAATNCTA AAATGGGATT AAAAGAAGAG TTGGAGAATT CACACTTATT 60
GAGTAACTGA TGTCATACAA CCTGGAATTT CTGAATTCCA AATAAATAAA TTTCACCTCT 120
TAAA 124

SEQ ID NO:4409

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05239

SEQUENCE DESCRIPTION:

GATCTATGCA GTATACATTT TNCAGGCTGA AATTCAGGG GAATCATTCT GATTATNCTT 60
ACTACAAATG GAGATGGCTA TTATGAAACA GCATGAGCAT GAGCCTTTNA TCTNTNATAC 120
TTAGTGATAT ACTTTGCTTG AAAATCACTC AGCAAAGTAG TTCACATGAT GTGTTATCAT 180
ATTTGANGTG TGGNTTNTCT CAAAATCATT GNCTTTAAGG NGCTCATTNC TGAN 234

SEQ ID NO:4410

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05240

SEQUENCE DESCRIPTION:

GATCTNTTTG TATGTNACGT GTTAAGGGCT TGTTTGGTAT CCCACTGAAA TGTTCTGTGT 60
TGCAGACCAG AGTCTGTTTA TGTCAGGGGG ATGGGGCCAT TGCATCCTTA GCCATTGTCA 120
CAAAATATGT GGAGTAGTAA CTNAATATGT AAAGTNGTAA CATACATACA NTTAAAATGG 180
ANATGCAGAA A 191

SEQ ID NO:4411

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05241

SEQUENCE DESCRIPTION:

GATCACCTGA GCTGCCTCAG ATTCCATTTG GTCCTCTCCT TCCTGGAAGG CTTCTTTT 60
TGTTTTGTTT TAATCCCAAA TGTCTGAATG TTTTGCAAGT TGTAGGGGTT TGAGCCCCTT 120
GTTTCTCTC CTTCTTTT CCTCCGCTT CCCTCTCCAT GAAGTGATTC TGTTGACAAT 180
AATGTATACT GCGCGTNCTC TTCCTGGTT TATCTGCAGA AATNNCTCTG GGCTTTTNTC 240
GGTGTTAGAT TCAACACTGC GCTAAAGCGG GGATGTTCCA TTGAATAAAA GAGCAGTGTG 300
GTTTTAAA 308

SEQ ID NO:4412

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05242

SEQUENCE DESCRIPTION:

GATCCACCCA CCTTGGCCTC CCAAAGTGCT GGGATTACAG GCGTGACACN CAAACCCAGC 60
CACCAATTTT ACTTTAGGTA AACTTTTATT TTCAAGCTTT TGTGGTGTT GCAAGTGTA 120
ATCTGTTTTA TAAATGTTC TATAAATATA ACCACTATTC CTTGTAAGCT ATTTAAAATA 180
AATTTTAAAG TCTTTCAAGT AACACCAAAA 210

SEQ ID NO:4413

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05243

SEQUENCE DESCRIPTION:

GATCTGAATT TAGGNACATT TCCTTTTTCT GTGGGAATCA CAAGAGTTTA TCCACTAAAA 60
AAAGATATGT AAAAAAGATA CTTTCCAGCA CATAAATAAA GGCTGGAATT TTACAACCTG 120
ATGTATATAT TAGACAGTTC TAGGATGTTA GTTCCCTNCA TNCCAGAGCT ATGCTTGTGA 180
TACAGCCCCT TTTCTTATAA AGTCAGTTAG ANGGACTTCC TTAACAATGA CTATTATAAT 240
GNCTTNCTTA AAATACAGTT TTGTATTCTG TCAATGCAAA TATAAGACAG GTTGTGCCNT 300
AATCATGTAN CANGNNTATT TTGNAGNTTT ACATATN 337

SEQ ID NO:4414

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05244

SEQUENCE DESCRIPTION:

GATCAGCTAG CTACCTTCTA CTTTCCATTT TTCAAGTGGA TTGTTCTCTT AATTTGTATA 60
TAACCTGTTG TCTAAATTTT ATGTACAGTC TTTTATAATA AACCATTCTC CTATATGAAA 120

SEQ ID NO:4415

LENGTH:185

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05245

SEQUENCE DESCRIPTION:

GATCTGGGCTC ATCCATCTGC ACACTGACCA CGCTAAGAGC TGTCTGCAGT GATGGAAACC 60
TTCTCTAGCT GTGCTGTCCT CTATAGTGGC ACCAGCTGCC TGTGGCTACT GAGCACTCA 120
ACTGTGGCTG CAGAGACTAT GTTAAATTGT ATTTAATCAT AATTAATTTA ATTGTAAACA 180
ACAAA 185

SEQ ID NO:4416

LENGTH:58

01383

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05246

SEQUENCE DESCRIPTION:

GATCTTAAAA TTCGTTTGCC TTTTAAAGC TATATTAAAA ANGTATTGTT GAATCAAA 58

SEQ ID NO:4417

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05247

SEQUENCE DESCRIPTION:

GATCCACAAG ATTNAGAAAA TATTATATAG TTAGATAATA ACATTCTTGT CTACTGATAT 60
CCNANCTNGT TACAAAATTN TTTAAACTT AAATAAAAC ATGCATCTN 109

SEQ ID NO:4418

LENGTH:363

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05248

SEQUENCE DESCRIPTION:

GATCCCTCTA CAGAGCTTCC CTGACTCATT CTGAAGGAGC CCCATTCTTG GGAAATATTC 60
CCTAGAAACT TCCAAATCCC CTAAGCAGAC CACTGATAAA ACCATGTAGA AAATTTGTNA 120
TTTTGCAACC TCGCTGGACT CTCAGTCTCT GAGCAGTGAA TGATTCAGTG TTAAATGTGA 180
TGAATACTGT ATTTNGTATT GTTCAATTG CATCTCCCAG ATAATGTGAA AATGGTCCAG 240
GAGAAGGCCA ATTCCTATAC GCAGCGTGCT TAAAAAATA AATAAGANAC AACTCTTTGA 300
GAAACANCA TTTCTACTTT GAAGTCATAC CAATGAAAAN ATGTATATGC ACTTATAATT 360
TTN 363

SEQ ID NO:4419

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05249

SEQUENCE DESCRIPTION:

GATCACATTC AGGATAAGTG TACAGAAGAA AATACGGGTG TTTACTCTTT AGGGAAGTGG 60
AAACACTCCC TGCATTGATG TACATTTTAA GAATGGCACT TTTGATACAT GTTATCATAA 120
AGGTGCTTAA TAGAGCTGAA TTAAAGTTTT TCAAATCTGT AAACANNGCA AAAANGTAAA 180
TTGTAGTCAT TTGATTATTT TTTAAATNGG NGCTTTATAT TTNGTNCTCA CTCAGAGTAA 240
AAGCTGCAAT TTATTGTNCA CCCAAA 266

SEQ ID NO:4420

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

01384

CLONE:HUMGS05251

SEQUENCE DESCRIPTION:

GATCAAAGCA ATTTACAGAT TCAATGCTAT TCCTGTCAAA CCACCTATGA CATTCTTCAC 60
AGAACTAGAA GAATAAACTA TTAAGGTTT GTATAAGTT TAAA 104

SEQ ID NO:4421

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05252

SEQUENCE DESCRIPTION:

GATCTCAACA GTGTGGGGTG AACAGAAGA CTGTATCTTC AGCCTTTTTC CTATAATCAT 60
GGATGATTTG GTCTTATTCA AAAGGACCGC ACATATTAGT ACTCTTAAGA GCATCTTCCA 120
AGACTCCAGC AGNGAGCATT TAGAGAGTGT GTTGTCTTCC AGAGTCATGA ATGATTTTGT 180
TTAGCTATCA GGTCTACTAC CTCTAAGGAC ATTCATAGC AGCATCTCTT GAGTTGCCTG 240
CATCAGTGTG GTGGTN 256

SEQ ID NO:4422

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05253

SEQUENCE DESCRIPTION:

GATCTGAATA TAATTCTGGT AAACAGCTGT CTCATTTTT NTCCTCTAAA GAACTTAATT 60
CATTTGTTAC ATAAAATATA AGGAAATCTT TGTACTATTT TACAGTAACC ACAATCTAAA 120
TATTTACATA TACCCAAAAT TANCTTATGC TCATATATTA GGATGTGAGA NTATCATCTG 180
TTTATGGACA CATGAAACCT CCTAATGACC TGAATTGTT AGANTATNTG ACTTTTTATA 240
TGCAAAGTTT TTCGN 255

SEQ ID NO:4423

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05254

SEQUENCE DESCRIPTION:

GATCCCCGGT GGTTTTGTGC TCAAATAAA AACTGATTAA ACCTTTGTGG CTGTGAAA 58

SEQ ID NO:4424

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05255

SEQUENCE DESCRIPTION:

GATCCTTTTC TTCTCTTATA AATCATCCTC TTAATGAAAA TTAGCCTAAC AAAAGTTTGG 60
AGACTGGAAT CCTACTTTGA GCCACTGACT TGAAATAACT CTTTGGCAA GTTGCTGAC 120

01385

ATCCTGTCTT ACCAAGGTGG CAGGTTTGCA TTTTACTGC TTTAAACATT TTTNTTTTTT 180
TAACCATCTT NANCCAAATT NATCATATNN GNGGTNGGCC TANCAGGNTT TTNN 234

SEQ ID NO:4425

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05259

SEQUENCE DESCRIPTION:

GATCCACCTG CCTCAGCCTC CCAAANTGCA NGGTATTACA GNCANGAGNT TCTGCGTCTG 60
GCAATAATGT AACTTTGAAG CTAAAAAATT AATCCCAGTT TGTAAGCAATA ACAGAAGACT 120
ATCTACAACG GAAGAAAGAA GCAACTGCCT TACAGTTCTG TAAAGANTTG GCAAGAAAAT 180
AAAGCCTATA GTTGCCGAAA 200

SEQ ID NO:4426

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05260

SEQUENCE DESCRIPTION:

GATCTAGTCA TCTTCTGTAG CTACATAGTA CTCCTAATGT TAAGATTACC AAATTCAGCA 60
ATAAAGCCAA AATCAAACT GAAA 84

SEQ ID NO:4427

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05262

SEQUENCE DESCRIPTION:

GATCATAAAC CAGTGNNATC AGACCTATGT GTAATAAGAC TCCTGTTAAT AAAAAATAA 60
AAAGCTAAAA GCAAA 75

SEQ ID NO:4428

LENGTH:424

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05263

SEQUENCE DESCRIPTION:

GATCTCAAAC TTGTCTTAAA TCAACAACCT TCTACTCATG TTAATGTCTT GATTAAATAT 60
CACAATGCAA AATACACATT AAGTAAAAGA ATTCCAGCTG GTAAACATGA CCTGGACATT 120
TGTAAGAATA TATTTAATAT ATGTNCACCC ATTATGTTTT TAGGTAACAG GNGGNNAAT 180
GCANCNAAT TTTTTTCTC TTGAAAGGCA CTGTCATTTA ANCATAAACC TGGAGTACTC 240
GAAATAGAAT TCAGGTTTAC ANGATGAAAG CGTGTGGAGA AGTGTGAGAT GGCAGTGGNA 300
GCATGTGTGT TTCTAAAANG TAAAANTCTC AAGGAAACCA NGANATGGCA TGCTTTTACC 360
CATCTTNCCT TAGTGAAAAG NGTGCTTCAG GTTTGANATT GTTTTAAGAA AGNTAGCCGG 420

GNTN

424

SEQ ID NO:4429

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05264

SEQUENCE DESCRIPTION:

GATCTGCTCC CTCTCGCTCT CTCCTCCAC TACTTTTGG AACAAAGTGA TGGCAGAATG 60
CGGTGGTGGT GGGGGTCTTT TGTACTGTTG GATTAATAAA ATGATTTNAA ATTNCNNNTA 120
AA 122

SEQ ID NO:4430

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05266

SEQUENCE DESCRIPTION:

GATCAGTATA ATTTTNNAAA GTTACTTTGT NAGAGGCACA AAAGGGTTTA AACTGNTTCA 60
TAATAAATAT CTGTACTTCT TCAAA 85

SEQ ID NO:4431

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05267

SEQUENCE DESCRIPTION:

GATCACGTAG ACATGTAACC CAGCAGCAGT TTGCTTCTGT TGTCCACTGA TTAATCAGCC 60
TATGTGCCTG ACCTGGTCT TGCAGTACAA CTGNAAGCCA AAACAAGGTG GAAGATGTCC 120
TGAATTAAGA TGTTTTACC ACATTGTATT ACAGAGACAG CCAATAAATC TACTATTTGA 180
TTTCAAA 187

SEQ ID NO:4432

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05269

SEQUENCE DESCRIPTION:

GATCTTTTAT TTNTGAAACA CTCAAACACC TTACAAAGTG CTGAGTAGGT AATAGTGACC 60
CAACTTGTTT GCTAAATGAT TATTTGTTTA AATCTGTACA GTTTTAAGTG TTCCTTATA 120
CAAAGAGTGT ATATACTTTC AAATAATTNA AAATGCTTTA NATTATNNGG CTAGAAATTG 180
CNGTTTTNAA TAAATGTGAA TNTNTNAAAA N 211

SEQ ID NO:4433

LENGTH:62

01387

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05270

SEQUENCE DESCRIPTION:

GATCTGTTGT TAGGATTCTA GTTAACACTT TTNTTTTAA AACTAAGGA CAAATGAACA 60
AA 62

SEQ ID NO:4434

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05271

SEQUENCE DESCRIPTION:

GATCCCAGGG GAGGGGTCTC TCTCCCATC CCAAGTCATC CAGCCCTTCT CCCTGCACTC 60
ATGAAACCCC AATAAATATC CTCATTGACA ACCAGAAA 98

SEQ ID NO:4435

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05272

SEQUENCE DESCRIPTION:

GATCGTATCC CGCTGACACA GAAGGNTGCC GGGTGGGGGG AGGGCACCCA TGAAATTCAA 60
AGAAAACCT AAGTGTGGAT GTTCAGAATT TTGAAAAAT GTCAGTGAAG TGATTGAAAG 120
AGTGCCTGGC ATGCAAGGNT AAGAGGTTCT TTACATAACA TTCCTAAAT GCTTAATAAA 180
CGTTTGTTGC ACTTGGTTTT GACATTGCCA ATGGGGTTTG AACCAGTGCT CTCTCTAAA 239

SEQ ID NO:4436

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05273

SEQUENCE DESCRIPTION:

GATCTGCAAT GACTGGAAC TGC CGGTGCC TGGGGTGCCT TTCCCCCAGC CAGGGTCCAA 60
AGAAGCTTGG CTGGGGCAGA AATAAACCAT ATTGGTCGGA AA 102

SEQ ID NO:4437

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05274

SEQUENCE DESCRIPTION:

GATCTTCTTT TGGGAGGATT TGATGTAAGT NACTGACAAG CCTCAGCAAA CCCAAAGATG 60
TTAACAGTAT TTTAAGAAGT TGCTGCAGAT TCCTTTGGCC ACTGTATTTG TTAATTNCTT 120
GCAATTTGAA GGTACGAGTA GAGGTTTAAA GAAAANTCAG TTTTGTNCT TAAAANTGCA 180

TTTAAGTTGT AAACGTCTTT TTAAGCCTTT GANGTGCCTC TGATTCTATG TAACTNGTTG 240
CAGACTGGTG TTAATGAGTA TATGTNACAG TTTAAANAA AAGTTGGTAT TTTATANGCA 300
CAGTCAATNC TNATGGTAAC TTTTGGTNGT CTN 333

SEQ ID NO:4438

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05275

SEQUENCE DESCRIPTION:

GATCAATGTT TCAGCCCTAG ACTGCCCAAG GAGTATTATT AATTATTAAT AAATGAATTC 60
TGTGCTTTTA AA 72

SEQ ID NO:4439

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05276

SEQUENCE DESCRIPTION:

GATCAGATTA TTTTACTACC AACAGTTATA GTTGAAAGT CCAACTGTAT TAATTGACTG 60
ATAATATGAT AATATAGAGA TTAAATTGTT TGTNTTCAAA 100

SEQ ID NO:4440

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05278

SEQUENCE DESCRIPTION:

GATCACAAAG AGCAAACAAA TGTCAATATC TCTTATGAAT GGTGAAAAAA AGGAATTAAT 60
CGATGCAAAT AAACTTTTCA CAGTATTACT TTAAAA 96

SEQ ID NO:4441

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05279

SEQUENCE DESCRIPTION:

GATCTAGCAA GCCATGGCGA CAGGTAGCAT TTNTAAGATG NTGNACAGGA GCAGNATTAT 60
CCCCAAAGAT ATTACAGGGT AGACACGTTT TAACTAAAAT CAATCAAGNT AACTTN 116

SEQ ID NO:4442

LENGTH:411

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05280

SEQUENCE DESCRIPTION:

GATCTGACAT ATATCACCTT CTGGGNTATT TACTCATTGT GCCAGGACCT GGCATTTTCA 60
 TGTGCCTTTG ACCAAGTGTT CAGAATTGTC TTGNCTCTAA CCTGGAGAGC TTCTTAAGTG 120
 ATGCCCCCTC ATGGAGCTTC TATGACAGTG AATAAACTAT TAATTGAAGG AAAATGTTAT 180
 AATTAANGTA TCTATTTGCT GCATTGTATA TGGATTAANT GNTAAAAAAC AAGTAATCTA 240
 CCCTCAGAGC CATGTATTTG AGAATGCTTT CAATCATATT TNCCTATGNA CTTTTTTTTT 300
 ATAACTTAG TTTTANGCCT ATGTTGTAAA ANTGGGAAGG TTNGTAAACN TATGTTTGGN 360
 AAAANTAGGG GAAATGTNGG CTAAANTTN TTTNCANTT ATNTTNGTTT N 411

SEQ ID NO:4443

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05281

SEQUENCE DESCRIPTION:

GATCTATCTG GGGGTCCTAG TGTACCACAA GCTGAACCTG AAGATTGGA AAAATGTTTC 60
 TAATTAAATA AAACAGAGCA AAAAGACAAA 90

SEQ ID NO:4444

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05282

SEQUENCE DESCRIPTION:

GATCTACATT TAAGTGGAAG AATTAGCAGT ATTTGAAAGC TCAGTTTNA TCATTGTCTT 60
 AACTTCAGAT ACAAATAACT GAACAGAAAG TTTTAACCTT TAATATCTCA TGTNCTGTTT 120
 NTTATTCAGT ATTTTCCTNT ATGTTAATTC AATTATATAC TTCTGAATGG CACCTTACTT 180
 TTTGGAACAA AATCTTCTGT TATTTACAAA ATAATAATTT TTANAAAACA TTTAAAAAAA 240
 ATCCAAAGCT GCTCTCGATA ATAGTCAACA TTTGCATATA TATGGAATTT CTTACTTTNT 300
 TTCTCCCAA CTCTATTTAA TAAACTNATT TTAATGGTTA AA 342

SEQ ID NO:4445

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05283

SEQUENCE DESCRIPTION:

GATCACAAAA ATGTATTTTA TAAAATGTTT TGTACAATAA AGTTACACCT CAAAGTGTA 60
 A 61

SEQ ID NO:4446

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05284

SEQUENCE DESCRIPTION:

GATCATTATC AGTAATTTCA TAGCAACTGT TCTAGNGTTT TGNGTTTTTA AAACAGAATT 60
 AGGAATTTGA GATATCTGAT TATATTTTTC ATATGAATCA CAGCTGTTGA CAATGTCCCA 120
 TATATTTAAG AAATTATATC ATACTGATAC TATTTGTAAC ATTTTGATTT GATTTAATCT 180
 CCAGGGACAG AAATAATTCA TTGGTAAAGN GTAATAATGC GTTTTTTAAA AATGCTTTGA 240
 GAGGTAATTA CTTGCATATG AGAGAAATAA AACATTTGGC ACATTGTTTA CAGGTGTGAA 300
 A 301

SEQ ID NO:4447

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05285

SEQUENCE DESCRIPTION:

GATCAGACCG AGAAGCAGGG TGAGAGATTC TAACGACTGG ATGCTGCTAG TAACACATTG 60
 TTTGTATTGC TTTACCATTT TTAAGTGTGA GATTGAGAT GAACATACAT TTTGCTTTTT 120
 TAATAAATGT TTAAGAAGAAG TCCACATAAG AAA 153

SEQ ID NO:4448

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05286

SEQUENCE DESCRIPTION:

GATCACTACA GTGAAGTATT ACAGTTGTAC AGTTCCCAGT CTGGCCTTGG CTTGCTCGGA 60
 TAAACTTTTG TATGTATTTT GTATGGCATA GATTCTATAT TGTAATGATG TCCTATGCAA 120
 AAAGAAAAAT TAACGAAATT GTAAATTTTA TTGTTTTAAC GTGTATGCAT GTTTAGTGAC 180
 GTTTACATTT TGAAATAAAA TTTATGATTC ATTAAG 216

SEQ ID NO:4449

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05287

SEQUENCE DESCRIPTION:

GATCTGGAAA CGTTTTGTAC CGATTATCCA CAGCAAAACA AAAATAAGCT TTTATTTTAT 60
 TAATAATTTT GTTCTCTTGT TGCCCAATCA AATCTTTTAG GAACAACTG CAAGAAAAGC 120
 TAAGAATGTT TTAGAGTGAA CTAAATACAG ACATTGCTTA CTTGTTTTGA AA 172

SEQ ID NO:4450

LENGTH:289

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05288

SEQUENCE DESCRIPTION:

GATCTCCCTG TGGCAGCAGG CATGGAGAGT CAGGGCTGCC TTCATGGCAG TAGGCTCTAA 60
 GTGGGTGACT GGCCACAGGC CGAGAAAAGG GTACAGCCTC TAGGTGGGGT TCCCAAAGAC 120
 GCCTTCAGGC TGGACTGAGC TGCTCTCCCA CAGGGTTTCT GTGCAGCTGG ATTTTCTCTG 180
 TTGCATACAT GCCTGGCATC TGTCTCCCT TGTTCCTGAG TGGCCCCACA TGGGGCTCTG 240
 AGCAGGCTGT ATCTGGATTC TGGCAATAAA AGTACTCTGG ATGCTGAAA 289

SEQ ID NO:4451

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05289

SEQUENCE DESCRIPTION:

GATCTCTTAA AAATACCACA GTTTGTATTT TTCCTTTAAG GAGTAAAGAT TTGCCTTTAA 60
 ATAACCTGGT ATTTTCTG CTTTCGTTTA ATACAATAGA AAATAAAGTA TTACACCGAA 120
 A 121

SEQ ID NO:4452

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05290

SEQUENCE DESCRIPTION:

GATCAATGTG ACGGCAGGGA AATGTATGTG TGTCTATTTT GTAAGTGTAA AGATGAATGT 60
 CAGTTGTTAT TTATTGAAAT GATTTCACAG TGTGTGGTCA ACATTTCTCA TGTGAAGCT 120
 TTAAGAACTA AAATGTTCTA AATATCCCTT GGACATTTTA TGTCTTTCTT GTAAGGCATA 180
 CTGCCTTGTT TAATGTTAAT TATGCAGTGT TTCCTCTGT GTTAGAGCAG AGAGGTTTCG 240
 ATATTTATTG ATGTTTTTAC AAAGAACAGG AAAATAAAAT ATTTAAAAAT AAA 293

SEQ ID NO:4453

LENGTH:336

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05291

SEQUENCE DESCRIPTION:

GATCTAGGTC CTTCTATCTC GTCCCTCTAC AGATGTATTT TCCACTTGCA TAATTCATGC 60
 CAACACTGGT TTTCTTAGGT TTCTCCATTT TCACCTCTAG TGATGGCCCT ACTCATATCT 120
 TCTCTAATTT GGTCTGATA CTTGTTTCTT TTCACGTTTT CCCATTTCCC TGTGGCTCAC 180
 TGTCTTACAA TCACTGCTGT GGAATCATGA TACCACTTTT AGCTCTTTGC ATCTTCCTTC 240
 AGTGTATTTT TGTTTTTCAA GAGGAAGTAG ATTTTAACTG GACAACTTTG AGTACTGACA 300
 TCATTGATAA ATAACTGGC TTGTGGTTTC AATAAA 336

SEQ ID NO:4454

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05292

SEQUENCE DESCRIPTION:

GATCTGCTGC AACCATTATC TTNGTTCTTG AGTTCATCAT GCATTTAAAA TGAGATGCAA 60
GAGCATTTAG CATAACATGT AAATATGGAC CTTTAAAAAT TAAAATACTA TTGGAAGTGC 120
TTTCAACTCA GCCACATCTT AGCTATTAGT TCTTTGTGTT GTCTTATCAA AGTTTAATGG 180
ATACAGTTCC ACAGTTGTTG ATGTGTTTGT GTGTATATTC GATTNNNNNA AAGATGGTAG 240
TAAGTCAATA AA 252

SEQ ID NO:4455

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05293

SEQUENCE DESCRIPTION:

GATCATACCA CTCCACTCCA GCCTGGGCAA CACAGCGAGA CTCCATGCTC CCCCCAA 57

SEQ ID NO:4456

LENGTH:564

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05294

SEQUENCE DESCRIPTION:

GATCAGGCTC TCCTCATGCT GTTTAGTGAT GGCACGTGTC AGGTGAACTN CTACGGGGAC 60
CACACCAAGC TGATTCTCAG TGGCTGGGAG CCCCTCCTTG TGACTTTTGT GGCCCGAAAT 120
CGTAGTGCTT GACTTACCT CGCTTCCCAC CTTGGGCAGC TGGGCTGCTC TCCAGACCTG 180
CGGCAGCGAC TCCGCTATGC TCTGCGCCTG CTCCGGGACC GCAGCCCAGC CTAGGACCCA 240
AGCCCTGAGG CCTGAGGCCT GTGCCTGTNA GGCTCTGGCC CTTGCCTTTG TGGCCTTCCC 300
CNTTCCTTTG GTGCCTNACT GGGGGCTTTG GGCCGAATCC CCCAGGGAAT CAAGGGACCA 360
GCTTTACTNG AGTTTGGGGN CGGGNTTGTT TTCGNTGGNT TCCTACCCCA TNTCCAAGAT 420
AAGCCTTNA GNTTAANTCC CANGNTAGGG GGC GTTATTT NATGGACCAA TTTTAAATTT 480
ATTNTAAGAA ANTTNTTTA NTTGGGGATT TTAAGCCCAA AGGGGGGCC TCNTCCTNAG 540
GTNANAAAAAN AATTTTTTAA GAAA 564

SEQ ID NO:4457

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05295

SEQUENCE DESCRIPTION:

GATCTTTATT TTTGATTAAT TTGTTCTGAT TTTTGGTTT GTTTTTTAAG GAACTGTAAT 60
GAACAAATGT CAGGATATCC AATGCCAAAT AAAGATGTTG TATTTATTTA AA 112

SEQ ID NO:4458

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05296

SEQUENCE DESCRIPTION:

GATCACACCC NGGTGAACCC ANGGTGCTAA GANTGAAAAT AACCTTGGTG AAATGTACAA 60
NTTAAAGACA AAGAACTACA TGTGAAGATA GACTTGCTTT CTATTTTNAATCAGTAGTA 120
GTACTGTTGC TGAATAATAC TAGGTTTTNN CN 152

SEQ ID NO:4459

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05297

SEQUENCE DESCRIPTION:

GATCTGGTGC TGCTTTCAGA TGTTTATCTT TTATTTTTTT CCCTTAAGCT TTAATCTTCG 60
TCATTGTCTT AAAGTCAACT GGTGTTTCTT GTTCATTGAC TTTGGTACGA TGGTGCTTTG 120
CAAGGATGTA TTTATGTTAT AATGGCCAAC ATTTGGTCAG CCCTTGTTCA CTTATTCAC 180
TCCCTCCNTT TGTAATAATA GTGCTTTAAT TATAAACTGT ATAAAAATAC CTTGTATAAA 240
CCCCTTTTTT GATTATTACA ATAAATAAGC TGAATTGTAA CAAATGAAAT TTGATTTTTG 300
TAATAAAACA GTGGAAGAAGT AAA 323

SEQ ID NO:4460

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05298

SEQUENCE DESCRIPTION:

GATCCTTTTT AGTTAATACT ATGACAGTAC TAAAAATATA TGAATAACAT TTCAGATACC 60
ATTATATTAA AATATTTGTG TATGTGTACA AAAGCGTTGA TAAATACTAA TCTTTAAAGT 120
TTGTGGAGTT CCTTTATTTG TAATATATGT GCTCTTAAAA GCAATGGGAT GTGAAATTAT 180
GAAAGTATTT TATTGTTTAT AGAAATAAAA AACACAGTTA CTTTGCAAA 229

SEQ ID NO:4461

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05300

SEQUENCE DESCRIPTION:

GATCTGGACC TAATGAATTC CTCAGAAAAT TCCCATGAGT CAGCTGATTT CAGTGCTGCT 60
GAACTAATTN CTGTGTCTAA ATTTCTTCCT ATTTCTGGAA TGGAAAAGGA GGNCATTCTG 120
AGCCACACTG NNNNN 135

SEQ ID NO:4462

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

01394

CLONE:HUMGS05301

SEQUENCE DESCRIPTION:

GATCTGGGTA AAGGACCATC TGGGGATTCT TTGTACTATT TTTCTTTCCG CAACTTTTCA 60
AGTTTCAAAC TATTGCAAA TAAAGAGTTT TTGTTTGTTA AA 102

SEQ ID NO:4463

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05302

SEQUENCE DESCRIPTION:

GATCACATGG CTAAGGTGGT GTGTGCCAGG TTTCTCCACT GTAAAATTAG GAATTTTCCC 60
TTTGAAATTA ACAAGAATCT TCCACTTTGA AGCTGTGTGA ATGTCTTATT CTAAAAATTT 120
TGCCTACTGA TTTTNANNNN CATCATCAAT GATTCTTGCT TATAACAGGT ATTAATGTTA 180
TGCTTGAAA 189

SEQ ID NO:4464

LENGTH:364

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05303

SEQUENCE DESCRIPTION:

GATCATGTTA ATTTAAAGCT TTATACACAT TGTTGTTTTT GCTGGTCTCA TCTTTGGTAA 60
TATGCTATAC CCCACTGCTG CCCGACACTG CCCTNTAGCT GCAGAGCTGG ATTAGCTGTT 120
GACCATTTGA TGCTGTTGTC TGTCTGGCAG GGACTGAATG ACCTGATGTC AGATTTAGAT 180
TCTTCCTGGG GATTACACAG CTATGAATGT ATTTGCTTCT AAAACCTCCC AAAGTGAATC 240
TAATCTTAAA ACTACAAGTT GTAAGTATTC TGAAATTGGG AAACATTTAT NTNAAATGCA 300
ATCAGGNNAG TGTTGCTTTT TACAGCATAA TNAATATANG TNTCAANNAN NGTGGANGGT 360
NGTN 364

SEQ ID NO:4465

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05304

SEQUENCE DESCRIPTION:

GATCACTTGA TGTCAGGGAG TTTGAGACCA GCCTGGCCAA CATGGTGAAC CCCATCTCTA 60
CTAAAAATAC GAAAATTAGC TGGGTGTTGT GGTAGGCACC TGTAATCTCA GTTACCTAGG 120
AAACTGAGGC AGGAGAATCA CTTGAACCTG GGAGTTGGAG GTTGCAGTGA GCCAAGATTG 180
TGCCACTGCA GTCCAGCCTG GGTGATGAAA CAAGACTCTT TGTCTCAA 229

SEQ ID NO:4466

LENGTH:496

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05305

SEQUENCE DESCRIPTION:

GATCTCTAAG GAACTCCTGT TGCTAAATAT GAAGAGTATG GAACATTCAT ATAGTCTCTG 60
TGAAGCATGG GGGGAGGGAA GACATTTCTN TTNCTTATAG GCTTTATGCT CAAATGTCAT 120
AGTCTCCTTT CAAAGAATTG TGTTCGATTT TAAATGCACC CAGCTTAAGT AGAAGACATT 180
GAAGGATGCA TTAATTTTCA GGAATATTT TGGATTATGA AAAGATTCCC AATTGAAAAA 240
ATTATTCAAC AAGTAAAAGC TAAGAAATTN CATTGAAATC ATAATGGCAG TTTAAGCATA 300
AATTTGATAA ANAATAGCTG TGTACTACTA AATTAATTAG GAAAATTCNA TTCCAANCCC 360
AAGNNGAAGG AGTCCANGGT GGAAATATCC GGTTCGGTTT TATTTTGNNC TTAGGNTGAN 420
GTTTTCCTTT GGTNAACCGN TTGNNTTTTT TATTTAANAT NGNTTAATTA TTTTNGGTT 480
AANGNTATGC CCCNTN 496

SEQ ID NO:4467

LENGTH:415

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05306

SEQUENCE DESCRIPTION:

GATCTTGGA GATATTAATA TCTGCTGGCC AGACCTAAAA AAACTGAAG GCCCAAGGAA 60
AGTGACTGGA CTCACTGGAA AGTNTCTAAC AAATACTTTG GATTCCAAAG TATTTCCAAT 120
ACCTTGAAGA TTCCTTTGAA AACATCAAAG CACAACTCA AATCTGCACA AGATTACAAA 180
AGCACAATTT TGGTGTATT TTTAGANTNC AATACACAAA GCTATTGTTT ATTTCTNTCA 240
GCAAGCATTT TCCTGGGTAG TAGTAATAGC TTAGGAATCA AATGCCACTT TTNTTTTCC 300
TTTTTTCCAC TAGTTTGAAA TACCACAANT NACAGGTNAG TCAGTCCTCC CAGAGGNNA 360
NGGNCAGTCC TAGGGNGGNA TCAACAGGNC TNGCAAGNCA AGNCCCACAA NTTNN 415

SEQ ID NO:4468

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05307

SEQUENCE DESCRIPTION:

GATCGCAAAT TGAAATATGG ATATTTGTAC CAGGCTGCGT GTTTTTCATT TTAAACACAC 60
AAGATTTAAT TGAAAGGACA TCAATAATCA TAATTGTGTA TTAAACAGGT GGTTTTNTAT 120
TAGTTTTCTN GTGTTTCAGA CTTTATGCAG CCAATAAAC TGTTCTCTAG GCATGCTGTG 180
ACATTTTAAT AAAAAGCAAA AGGAGCAAA 209

SEQ ID NO:4469

LENGTH:353

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05308

SEQUENCE DESCRIPTION:

GATCGCACCT TTTATACCAG AGACCTGAGG CAGATGAAAT TNATTTCCAT CTAGGACTAG 60
AAAAACTTGG GTCTCTTACC GCGAGACTGA GAGGCAGAAG TCAGCCCGAA TGCCTGTNAG 120

TTTCATGGAG GGGAAACGCA AAACCTGCAG TTCCTGAGTA CTTTCTACAG GCCCGGCCCA 180
 GCCTAGGCCC GGGGTGGCCA CACCACAGCA AGCCGGCCCC CNCTCTTTTG GCCTTGTGGA 240
 TAAGGGAGAG TTGACCGTTT TCATCCTGGC CTCCTTTTGC TGTTTGGATG TTTCCACGGG 300
 TCTNACTTAT ACCAAAGGGA AAACCTCTCA TTAAAGNCCG TATTTCTTCT AAA 353

SEQ ID NO:4470

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05309

SEQUENCE DESCRIPTION:

GATCCTCTAA CACTGTACTA AAACATTTCA ATAAAATCAT TCTGACTGCG TTCATAAAAA 60
 CAAA 64

SEQ ID NO:4471

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05310

SEQUENCE DESCRIPTION:

GATCTATTAC TGACCGTATG ATGAGGCCAA CTTTTTNCC TTGTGGTTAG CAAGACTGCA 60
 AGAGATGGAA AAAAAGTAGT TTGAATGTTT TGTGTGTAAG GAGTATACCA TGAGATGAGA 120
 TGACCACCAA TCATTTCTT GGGGGGAGGG GGTGTCTGCA CCNTAGAAA 169

SEQ ID NO:4472

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05311

SEQUENCE DESCRIPTION:

GATCACTTGA ACCCAGGAGT TTAAGTCCAG TCTGAGCAAG GCAGTGAGAC CCTGTCTCTA 60
 AACAATAAAA ATTAAAATAA GTATTATCGA GAGTTCCTGG AGGGGTGAAA TTAAAGACTT 120
 TCAAACTTA AA 132

SEQ ID NO:4473

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05312

SEQUENCE DESCRIPTION:

GATCACCAGG CTGCCCAAGG GTGCTGTGCT CTACAAGACT TTTGTCCACG NGGNTCCTGC 60
 CAAGCCTGAG GGCACCCGTC AAACCTGGTAG CTATGCTTNG ATGTCCTGTT GAGGCCATCG 120
 GACAGAGACT GGAGCCCANG TGACAGGAGA TGGTGATACC AGAAGTCAAG GGTGGGGTG 180
 GCGACACGGC CTCCCGAGGA AGAGGTCTGC TTGATGGTGA CTCTGCAGGA GACTCTGAAG 240
 TGACTGCTGG GAAACCCTTT GGGAGACCTN ACCTGNNGGCC AAAANTAAAG TNNGCCAGCN 300

TCATGAACCG CATNCTATTT AAGGGAAA

328

SEQ ID NO:4474

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05313

SEQUENCE DESCRIPTION:

GATCTGGACA TGCTGTNACA AGAAATAGTG ACCTTGGGGA ATATGTACAG AAAAGACCTT 60
TTTCTAAGAG TTGGGAGGGG GTGGGGGACT GTATAATGAA AAGAATTAGC TTACAAAAAA 120
GAAATTGATA TTCAAAGTAT TTTAGGCAAA GCCAGTCAAA ATGCTTTCAT GATATTTTGA 180
GATGTAAATT TTGTCTGATT TGTATTGTNC TTTTCATTG CCTTCTTAAC TTTATATGTG 240
ACCTGAATTT TCCATAACTT GATGACTATA GATTGCACCT AGGCATTCCA ATAAAAGCCA 300
ACCCAAA 307

SEQ ID NO:4475

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05314

SEQUENCE DESCRIPTION:

GATCGTAAAA ACATGTCTTA TGCGGAACTT TCATGTCAGA TGCCTGGAGT GTGAAGTGTT 60
CATTGGACAT TCCATTTTAC TGTTCTGAAGT ATGGACTTAC ATATCAAATT AAAAGGCTCT 120
TTTGTCTCTGC AAA 133

SEQ ID NO:4476

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05315

SEQUENCE DESCRIPTION:

GATCAACTGT CCTTAACCAC AGCAGCATGA TACGCTGGNT TACCCAATCG CTTGTAAGGN 60
AAGNCAGAGA TGACGTTATC CTGACTGCTG AGATGAGCAG TTTACCCTAG GAGGNCCNAT 120
TNGGACTATN 130

SEQ ID NO:4477

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05316

SEQUENCE DESCRIPTION:

GATCAGCCAC ACAACTGTTT TGTACATACT TATTTTCTCA TGCACTTTTC TGTATGCAAA 60
TAAAGCTATA AATTTACTCA TTTCAATAAA CTGGAGTGGC AGAAA 105

SEQ ID NO:4478

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05318

SEQUENCE DESCRIPTION:

GATCTGGGAC AGANTTCACT CTCACCATCA GCAGTCTGCA ACCTGAAGAN TTNCAACTN 60
ANTACTGTCA ACAGAGTTAC AGTGCCCCGT GGACGCTCGG CCCAGGGACG AAGGTTGGAC 120
GTCAAACGAA CTGTGGCTGC ACCNTCTNTT TTCATCTTN 159

SEQ ID NO:4479

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05319

SEQUENCE DESCRIPTION:

GATCTGAAAA GAAGGTGAAT ATTTTGCAC TTTGATACTC TTAGGAACAA ATAAC TTATT 60
TGGCAAATTG TTTNTTTTTT ATGTTTTGGG TGTGTTTTT GTTTTTTGAC TTTTTTTGTA 120
TTGTGAACAG GCACTGAAGC TGATGTTATT TTAAGATTAC AGAATGGAAA 170

SEQ ID NO:4480

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05320

SEQUENCE DESCRIPTION:

GATCATGTAA AATTACAGTA CTCAACCCTT CTAGCAAAGT ATTTGGNTGA AAAATAAACT 60
AAATGCCTTT AAA 73

SEQ ID NO:4481

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05321

SEQUENCE DESCRIPTION:

GATCCGCAGA GGGTGGTTGG GATACACCGG ATACCTCTGC TCTATTGCT TGTTTCCAAA 60
TGCTCTATGG ACATTTGTGT GCTAAATCCT ATTAAATAAA AAAGACGGGT TAAAACCCAG 120
ATGCTGTAAA 130

SEQ ID NO:4482

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05322

SEQUENCE DESCRIPTION:

GATCAAATTG AGAGACAATA AGTGTACATT GTTGAATAAA AAATTTTAAA GTTAAA 56

SEQ ID NO:4483

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05323

SEQUENCE DESCRIPTION:

GATCTTGAGA GTATGTTCTT ACTCATTTCT GTAATTGCAG TAGTGTAGTC ATCTGCATAT 60

AGTTTAAATA AATGCATGTT AAAATTTAAA 90

SEQ ID NO:4484

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05325

SEQUENCE DESCRIPTION:

GATCACGCCA TTGCACTCCA GCCTGGGGGA CAAGAGTGAA TCTGTGTCTC ACCAGAAA 58

SEQ ID NO:4485

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05326

SEQUENCE DESCRIPTION:

GATCTGGTGA CTGTNCTCTC CCTGTTTTCC TTTCTTTTGG GGTGTTTGAG GAGCANNGCT 60

TAGCTTGAGA CACACACAGA CACTGTGTAC TTCAGTNAAG GGCTTAATAN ACAGN 115

SEQ ID NO:4486

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05327

SEQUENCE DESCRIPTION:

GATCATTTCT ATGTGTGTGG GTAATCTGGT CAGTAAGATT GAGACTTAGT TAAGATTCCC 60

CTTGGAATT CCTTAATGTT TATTAGCTTC TAACTAGTGT TGTAAGTCCG ATGCCAGAAT 120

TTGGAGATTT GAGTTCTTCT TTTCATGGCT TTTATTCACT GTGACTAATA AGCTTCCTAA 180

TAAATCCTTG CCAGACTTAA A 201

SEQ ID NO:4487

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05328

SEQUENCE DESCRIPTION:

GATCTAGTTC GTGTATAACT GTTAACTCAT TTTACATTTT TTNCTTCGTT GAATGTTTAT 60

CAGATTATAA ATATAGAGGC ATTTCTNCAT CCTGTTTAAT GTTTATTTTG TAATCATTGG 120
AGTATGTGAA AAATTTTNGT TTGTTTTGCT TTGGTCTCTA AGTAAACATG TTCAGCAAAG 180
TATTTNTNTT TTNAAGAAAT AAATNGNGNT TTGTATGTCC TNCCTTTTAG GTTGAGGCA 240
AAGAGGAGAT GGGAANCCAA AGGCAACANG GGNN 274

SEQ ID NO:4488

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05329

SEQUENCE DESCRIPTION:

GATCTNTGCC ATGCAGAGCA TCTTCCAGAA GACCAGGACT CTGGGAGGCG AGGAGAGCTG 60
AGCTGGGCCA CCTGGTCTCA GCCACCTGTT CTTGGCTCCC CAACAGACTC TGCACTGCAC 120
CATGGGAGGC TCCTGGGATG TTTGGAAGAA GAAACGGGCT TCTCCTTGAG GGGGTAGTGG 180
AGGGATTTTT TCCCCAGCAG TGGCCTCTGA GAGTNNNTCA GTGCCTGGTG GGGCAGGGCA 240
GGCCTCTTGG AGCACCTCCT CCCTGGNTCA GGGCCTGGAT GCAGGTGCCA AGCTCTCCAT 300
GTGGTGCATG TTNGACCCAG CCACGTGGTG AN 332

SEQ ID NO:4489

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05331

SEQUENCE DESCRIPTION:

GATCTTAACT ATGAGTAATT CACTATCAAG AGCTAATTAT TTGAAAAAAT ATAAGATGTT 60
ATGGAGCAGA TAGCTCAAGC AGTTAAAAGA AATTNTGCAA CTNTAATTCT NTCCTTATT 120
TTAATACTAC TACTTAATAA ATAGTATTTG CTAAA 155

SEQ ID NO:4490

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05332

SEQUENCE DESCRIPTION:

GATCAAATCA GAGATTGACA GCCTGTGGAG GGTGCTGAAC TATACAGAAT TAGACACAAC 60
TATGTCATTA TTTTTGTAC CTACTGNTCA GAATAAAAAC ACTTGAAATA TGAAA 115

SEQ ID NO:4491

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05333

SEQUENCE DESCRIPTION:

GATCCCTTCT GTTGGTGTC TGTGTGAAAC ATTTCTTTCA ATAACTAAA GAAAAATTAT 60
TAAAGGAACA CATACCTTTG GTTAAATAGT CTAGACTAAA AGATTGAGAA GTTACTTTCC 120

ATTGCTATCT ATTGATAATT TAGACATTGA GTTCAAATTG CCTTCATTTT ATGATAAATA 180
ATGATTTAAC TGACAAA 197

SEQ ID NO:4492

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05334

SEQUENCE DESCRIPTION:

GATCATTTTT ATTTTGTAAG TATTACCTAA CTTTACATAA ACTATATCAT AATAAACTAT 60
TTTTGCATCA CCCTTTAAA 79

SEQ ID NO:4493

LENGTH:377

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05335

SEQUENCE DESCRIPTION:

GATCTCCAAG CTGAAACTTA CACGTTAAAA CTTTTGCCTG TAAGAATTTG CACATGAATG 60
TTAATGGAAA ACACAAAACCT TAAGATGGCC CAAAACNAAA GCCACAAACA GTTCATCATT 120
TGGTGCTTAG TCTTTGTAAG GGCTCTCTGT GGTTTGACTT ACTCCAGCTA CCGTTAGATG 180
AGGGCAAATC ACCTTAGAAC ATGTTTCATT GATTCATAAC ANGGAATTT GGGTCTATGA 240
TTTTTNGCCA ATCTTAGCCT AAAAGAAATT GCTTTAGCTT CTGGTCAGCA CTGATTAAAA 300
TGTGAATAGT GAAGTGGCTA TCCTAAACTG GTTTATCTCC ACCCACACTA TCATAGANTT 360
CTTAGGTAAT ACAATTN 377

SEQ ID NO:4494

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05336

SEQUENCE DESCRIPTION:

GATCAAACAC ACACACCTAT ACACATACAT ATTAANATGC AGAGGATTTT AAATAATTGC 60
AAATGTCTTG TGGCTGTTTT ATTTCTACAA AATTCTGTAA GATGTATACC AGAAAACATA 120
ATAAAGATAA GCTCAGTTCT TCATTGGGNA AAANTATTTT TAAGNNNNNN 170

SEQ ID NO:4495

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05337

SEQUENCE DESCRIPTION:

GATCTGTAAT GTGTCAAAGC ATTTTTCAT TTTCAAATAA AGATACCTAT AATGAAA 57

SEQ ID NO:4496

LENGTH:373

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05339

SEQUENCE DESCRIPTION:

GATCAGAATC TNCCAAC TTT AGAGGTGCAA TGGAAGACAC TACGCTACTT GGTGAGCCT 60
GGTGAAGAAT GTATTAATGA GACTNCTTTG CATAAACTG GGAAGAAAGA GAAGACAGTT 120
GGAGATGGAA GATGGTTTTN TATATATNTN GGAAC TTTAG TTCCTCTGTA AGACGAAAGA 180
GGAGAGCTAT GTTTNTNTC ACATTGTCTG ATATATATNG TGTACCTGTC AGGTGAGTTG 240
ATTTAGACAN CATAGCTGAC CTTTTATGAC ANGGCAGTTT GANTAGGGNC TATTGTAATA 300
CCCTCACACA TTATAGGGGC ATCAGAGNAT GGCCATGGNA GGGACAGTCT TACAGGGGGC 360
TTTANGNGN CCN 373

SEQ ID NO:4497

LENGTH:368

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05340

SEQUENCE DESCRIPTION:

GATCTGAAGA AGTTGCTGTT CTGAAACAGA AGTTGGAGCG ATGTCATTCT GCTGAGCTTG 60
CACTTAACGT AATCACGAAG TAGAGGAAAG GCTATGNAGT TGATGATTAC GTCTCAAAGA 120
AATCCAAACA TGAGGAGGAA GAATGGACTG ATGACGACCT GGTAAGATCT CTCTAACCAT 180
TTGAAGTTGA TTTCTCAATG CTAAC TAATC AAGAGAAGTA GGAAGCATAT CAAACGTTTA 240
ACTTTATTTA ANANGTATAA TGTGAAAACA TAAAATATAT TANNCCTTTN CTATTGTTTT 300
CTTCCCTTT CACAGTAACT TTATGTNAAA TAACCATCTT TCAAAAGGGC TANAANNAN 360
ANANNTNN 368

SEQ ID NO:4498

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05341

SEQUENCE DESCRIPTION:

GATCACATCA CCTCTCTGCC TCAGTTTCCC CATCTGTAAA ATGGGAGAAT AATACTTGCC 60
TACCTACCTC ACAGGGGTGT TGTGAGGATT CATTTGTAAT TTTTTTTTTT TTTTAAANA 120
GNGTTTTAAN GNNTAAAAAN CAGTNAAATN 150

SEQ ID NO:4499

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05342

SEQUENCE DESCRIPTION:

GATCTCCATC ATTTCTTACA GGT TTTCTC CTCAAGCAA TTCGACATCT CAAGTGAAGA 60
CATGGCCCCT GAAGGGCAAT AAAGCTGCTA GTTTATTAAT ACAGTCAAA 109

SEQ ID NO:4500
LENGTH:315
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS05343

SEQUENCE DESCRIPTION:

GATCTACAGG NCAAGGGAG GGAGCAAGCC CTA CTCTGGAT GGGGCACGGA CTGTCCACCT 60
TTNCTAATGT GTGTTGTCAG CCTGTGCTGT GGCATAGACA TGGATGNGNG GACCACTTTG 120
GAGACTGGGG TGGCCTCAAG AGCACACAGA GAAGGGAAGA TGGGGCCATC ACAGGATGCC 180
AGCCCCTGCC TGGNTTGGGG GCACTCAGCC ACGACCAGCC CCTCCTGGG TATTTATTCT 240
CTATTTATTG GGNNGNGTG AAGAGGCATC CTGCCTGGNT GGGNCAGCCC CTTCAGCCCC 300
TTNTNCCCTN CCCGN 315

SEQ ID NO:4501
LENGTH:157
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS05344

SEQUENCE DESCRIPTION:

GATCAGACTG TTGCTTTCGC ATGNTGTATG TAGTGTCTCA TGNCTGGAGT TTGCTTTGTT 60
TTATAGTATC TGTACTCCTT GTATTTTTC AAGAGCTATTT TGTAACAGA TGATGTATTT 120
CTCCATTGAA AACACAATAA AAAAAANCA GCACAAA 157

SEQ ID NO:4502
LENGTH:397
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS05345

SEQUENCE DESCRIPTION:

GATCTAGTCT TTACTTTCAG TTGTNTGTTA GGTCCATTCT GTTTACTAGA CGGATGTAA 60
TAAAACTAT GCGAGCCTGA NTGANTTCTC AGCCAAATTT AGTCTTGNT CTCATCTTGA 120
TTGGNTTAAT TCAAATTCT AAAATGATT ANTNCACAAT AGCTCTAGGG GATGANGAAT 180
TTGCCTTACT TTGCCAGTT CTAAGACTG TGAGTTGTCA AATCCCTAGA CTGTAAGCNC 240
TTCAAGGAGC AAGAGGCGCA TTNCTCCGT GTCATGTAAT TNNCTAAGG TGCTTGGCAG 300
CACTCTGTAC CCTGTGGAGT ACTCAGTACC TNTGGTTTGA NGTTGCTGAC AAGACCTGAA 360
AAAAATCCCT TAAAAANNA ACCCTTTAAG GTGTGGN 397

SEQ ID NO:4503
LENGTH:84
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS05346

SEQUENCE DESCRIPTION:

GATCAGACTT GTTAAGTATG CCGCAAGTAA GAGCTAATTC ATTCATTCCA TGTNTGCCAC 60

TAAATAAAGA GATTGAGCAA GAAA

84

SEQ ID NO:4504

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05347

SEQUENCE DESCRIPTION:

GATCTNAACC CCAGACATCA AGGATAACAT CGTTGCTCAG CTGAAGCAGC TGTACCGCAT 60
CCTTNAACC CAGGAGAGCT GGCAGCCCAT GCAGCCCACC CCCAGCATGC AACTGCCCCC 120
TGCCCTGCCT CCCAGTAAT TGTNAATGCN ATCTTCTTCC TTCTNTTTTT TATAATATTG 180
TACATATGGA TTTTTTNAGN GNTTAGATTT AACCAGCTTT TAAATCTCTC TTTNNTCTAA 240
CAGTGTTAGA AGTTTGTNAT TCTNCAAATA TGCCTAGATT TAAAGCTGNT TTGAATTTAT 300
GGNAAAAAAA AANAAN 316

SEQ ID NO:4505

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05349

SEQUENCE DESCRIPTION:

GATCAAAGTG TTAGGGGAAA AAAATTCCAA AAGTAGTTAC AAGCTATATC AATGTCAAAG 60
TAAATNCACT TCATCAAAGC TAAGAAGTCA CAGGAATTGT NCTCAGGTTT TAAAAAAAT 120
TTTNCCTGAA TTCAGGAAGT GTCTTCTGAA TAGCAGCTAG CCANNTAAAG CGGTGTGTGT 180
GTACTGCAGC TGTAGGTGAA CTTAAAAATA ATAATAAA 218

SEQ ID NO:4506

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05350

SEQUENCE DESCRIPTION:

GATCAGCCAG TTACCTTCTC CATTGTNTTA GTTCTGTCAC CCATTTTCGTC AAGTGACCTC 60
TCATCTTCTA TAAACTAATA CAGGAATTCT TTCCAAAGCA ATGTCTAAAA ACTCTTTTTT 120
TTAAAGTAAC AGTTTGGTAT GTTTATTGTA GATAAATNAT TTTNAGGCC TTCATTTTAG 180
CTAAGTTTAG AATTNATATT AGGCANCTAT GATTTGAGTG GTTATNCATT GAGTAANTTT 240
CCACTATAAA GAATTTNATT GANCANTTGT TAAAGNATNN TGGTAATGCA TGGNCAN 297

SEQ ID NO:4507

LENGTH:322

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05351

SEQUENCE DESCRIPTION:

GATCAGAGCA CTGAGAACT CCAGAGGCTT CTGGTTCACC GCCCTGATTC CACAGATGTG 60

01405

GGTCAGAGGC AGAGATGGAA GTTGAATGG ACAAGCCTGC CCTCTCCTCA GCTCTCCATG 120
 GCTCTGTCCT CAGGCTGTTT CTGCAATTTG ACATGAGGCC TGGCCCAGG GAAACCAAGT 180
 GGGCCTCATC TCCTCCCTGT GCTGCTCTGA GGTGGAGCCT TCTNAGGGTC AGTCCAGCTC 240
 TGGAGNCCCT CTCCAGCTCG GTCACCAAAG CTGTCTGGTC CCAGGGCGGT GTGGAGTGAC 300
 AGGCACGGCA GCCCAATNCN GN 322

SEQ ID NO:4508

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05352

SEQUENCE DESCRIPTION:

GATCGCGCCA TTGCACTCCA NCTTGGGTGA CAGAGTGAGN CTCTGTCTCA AAAAATAATA 60
 ATAATNAATT AATTAATTAA TTAATAATA AACAGTGGGT TAGTTATCTC AAAAGTGGGC 120
 TTGTTATAAA ANCNNGN 137

SEQ ID NO:4509

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05353

SEQUENCE DESCRIPTION:

GATCATAAGA CTGTCATGTA AGAGGTGCTC TCCTGGCACC CAGAGAAAAG GAGCATCCTT 60
 ACCTCCAAAA GCACAGGGAC ACAAAGAGGA ATCTAAACAA ACAGGCCTCT NAGTTTCCCC 120
 CAGTTTATTA CATTTAGCTT GTTCACACTT TGCCCTATGA CATTNCTACA TCACTGGNTG 180
 CTCTTCATCA AACCTACTAT AANNNNCATT CAAGTTCAAC TGTTCCTTTG GGCCTTNNTT 240
 NNCTTATGGA GGCCCTCGTG TCGTGTAATA CTTNTATTNG GTNAN 285

SEQ ID NO:4510

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05354

SEQUENCE DESCRIPTION:

GATCAGCAGA GTGGAGGCTG AGGATGTTGG GATTTATTAC TGCATGCAAG CTCTACAAGT 60
 CCCGGTCACC TTCGGCCAAG GGACACGACT GGAGATTAAG CGAACTGTGG CTGCACCATC 120
 TGTNTTCATC TTGCCGCCAT CTGATGAGCA GTTGAAATCT GGAAGTGCCT CTNTTGTGTG 180
 CCTGCTGAAT AACTTCTATC CCAGNGAGGC CAAAGTACAG TGGAAGGTGG ATAACGCCCT 240
 CCAATCGGGT AACTCCAGG AGAGTGTCAC AGAGCAGGAC AGCAAGGACA GCACCTACAG 300
 CCTCAGCAGC ACCCTGACGC TGAGCNN 327

SEQ ID NO:4511

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05355

SEQUENCE DESCRIPTION:

GATCCTCCAC TCCAGAGCAC CTGAGAAGGC CGGGACCAGA GGCCTGTGT GATGTGTACT 60
CCGCAGCTGT TTGGGGTGGG ACATTTCTGT ACTTCTCGAT TTGCTTATGG CTCAGCCATT 120
ACCTGTGTCA GTCCATGATT CTGTTGTAAC AGTTTAAAGA GTAAATAAAT AAAGCTGCCT 180
GATGTCCCAT CAAA 194

SEQ ID NO:4512

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05356

SEQUENCE DESCRIPTION:

GATCACTTTT CCCTGTCTAA ACTCCAGGNT ACAGTATCCA ATANATCCAA ACAGAACTCT 60
GGTGTCAAAG TGTAANTAAT NGTGTAATAAT AGCCTTCCCA AGNTTN 106

SEQ ID NO:4513

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05357

SEQUENCE DESCRIPTION:

GATCTCACCA CTGTACTCCA GCCTGGNTGA CAGAGCGAGA CCCAGACTCA AAAAATAAAA 60
ATAAAAACCC TGAATATCTT CCTTCTAAA 89

SEQ ID NO:4514

LENGTH:366

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05359

SEQUENCE DESCRIPTION:

GATCTCTATA CCTCAGCTTC TTCATCTGCA AAGTGAGATA ATTGTACTAT TCTACTTTCC 60
TCATAGTGCN NTTATAACAG ATTATGATAA TATTACAAAG TACTTAATAC TTGGCATATA 120
GTATATATAT NANTATTAG TATTTTGCAA TTTGGGGATA TTGAAAATTA GAAATTGCNT 180
GTTAGTTCAT GCTGCACTAC CATATTGTCC TTTTGGGGCT CTTCAATGGG TGAAATTCCA 240
TTTNACAGTT TATCATGTGC ATCTGTATCA CAGGNGTATT TTGGCAAAT GATTCTGTNC 300
CAAAAAGGAG TACTATANNN NGNGGGTGCC AAATATATTG AGTCTNTTAT GGGGAAAANA 360
AATTTN 366

SEQ ID NO:4515

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05360

SEQUENCE DESCRIPTION:

GATCTCTGGT AAAAAGCAAC ATCTGAGAAA ATTNCTTGTT TTTAGGAACC TGTGTACATT 60
 CATACTTAAT TCTNCCAATN ATGCTTTTCA GTTTTTTGA TTAACACTCA AAAGTAACAA 120
 GTCCTCAAAA TTAGGTTTGT CCTGTTGTTT TAAGTGGACC TTTGGCAAGA GATTCTAGT 180
 GAAGCTTGAT TCTNAGTACT TTCCTCATGT ATTA AAAAGA GGCTGGAGGA GGGAAACCTGG 240
 GACGTGGAGA GTGAGGAGTG ATAGCCTGAG GTTCTTGTT TGCCAACCTG GGGAAACCT 300
 GTCTCTACTT AAA 313

SEQ ID NO:4516

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05361

SEQUENCE DESCRIPTION:

GATCACTAAA CTATCTCCCC TCTTGCTGAA GTTCTTTGTA GTAATAGCTC ATAAAAATTT 60
 GTTTATTAAT AAA 73

SEQ ID NO:4517

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05362

SEQUENCE DESCRIPTION:

GATCTTTTAA AAAGAGATTA AACCGAAGTG ANTAAAAAGA CCTTGAAATC CATGACGCAG 60
 GGAGAATTGC GTCATTTAAA GCCTAGTTAA CGCATTTNCT AAACGCAGAC GAAAATGGAA 120
 AGATTAATNN GGAGTGGTAG GNTGAAACAN TTTGGAGAAG NTAGAAGTTT GANGTGGA 180
 ACTGGANGAC AGAAGTACGG GAAGGCGAAG AAAAGANTAG AGAAGATAGG GAAATTNGAA 240
 GNTAAAN 247

SEQ ID NO:4518

LENGTH:95

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05363

SEQUENCE DESCRIPTION:

GATCGCAGAA CATACTGTAT TTTNACTATA TCTTTTTTTT TAAATCTGAC AAACTTTTTT 60
 NCTTTNATTT NAATTGACAT AATTGTACAT ATAAA 95

SEQ ID NO:4519

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05364

SEQUENCE DESCRIPTION:

GATCTGCTTT GGAAATTAAT TGCCTCTAAT ACATACCTAA GTAAACATAA CATTAATACC 60
 TAAGTAAACA TAACATTACT TGGAGGGTTG CANTNTCTAA GTGAAACTGT ATTTGANACT 120

NTTNAGTNTA CTTN

134

SEQ ID NO:4520

LENGTH:269

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05365

SEQUENCE DESCRIPTION:

```
GATCTGGCAC TGAGCTTTTT GTCACTGAAC CTTCCCGATG CCAGCTGGGC TCTTGGACTC 60
CCCTCTTCCT CAAGGGTAGA TGAGAGGAAC GATNNNTAGA GGTGGCTGT GGGTCCTGGG 120
TACCACCTTC TGAGCCTCAG TTCCTCATC TGTAAGTGG GGAGAAAAGT CTGTTTGCCT 180
CAGGAGTGTG AGGACTACAC TAGTGAAAGC NCCTGGCGGG CAGCCGGCGA TGCCCAATAA 240
ATGTGTGNTT TGCTGTTTGT TAAGTGAAA 269
```

SEQ ID NO:4521

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05366

SEQUENCE DESCRIPTION:

```
GATCAGTTTG TAATTTTTTT NCTCCTTGAA GGCACAAAAT AATTGGTTTN AGGTATGTAA 60
AACACTAGAG GTCAACCTTA CATAGTATAT AGAACTNATG GGTTTACCCA GCTACCCAGT 120
AGCATAACTT TNCACAGCTC GGGGATGAAT TAACATGGCT GAAATAAAAC TAAAAGTATG 180
GTTTTNAAA 189
```

SEQ ID NO:4522

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05367

SEQUENCE DESCRIPTION:

```
GATCACAGTA CACCATATGC ACTCTGGTAC CTTAATTTTT TTTTATAAAT AATAAAAGTG 60
AATATTGAAG CTTCTTAAA 79
```

SEQ ID NO:4523

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05368

SEQUENCE DESCRIPTION:

```
GATCTGTTGA ATTTGGGAAG CCTCCAGTTT TAATAAAATT TTTTATTAT GGTGGAAACN 60
TGTCTGTAAG NCTTAGGACT ATAGAAATGC AAAGAATAAA GANCTGAGGG AGTTACACAC 120
ATTTGTAGTC AGAAATTAAG TTCAAAANAT AATTTAGGTC ATTTGCATTT TTTAGTATGC 180
AAAATAAATG GAAAANTTAA NGTGCAATAN ANNTATAATT NGGGAAATGA ATGCAGTAA 240
NTTGANAACA TTGAN 255
```

01409

SEQ ID NO:4524
LENGTH:51
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS05370
SEQUENCE DESCRIPTION:
GATCTGTCAG GGCCACTTAG TGATAATAAA TTCTTCCCAA CTGCAGACAA A 51

SEQ ID NO:4525
LENGTH:353
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS05371
SEQUENCE DESCRIPTION:
GATCCGCATC GACTTGGCCG TGGGCGACGT GGTCAAGACC TGGCGTTTCA GCAACATGCG 60
CCAGTGGAAT GTCAACTGGG ACATCCGGCA GGTGGCCATC GAGTTTGATG AACACATCAA 120
TGTGGCCTTC AGCTGCGTGT NTGCCAGCTG CCGAATTGTA CACGAGTATA TCGGGGGCTA 180
CATTTTCCTG TCGACGCGGG AGNGGTCCCG TGGGGAGGAG CTGGATGAAG ACCTCTTCN 240
GCAGCTCACC GGGGGNCATG AGGNCTTCTG AGGGCTGTTT GATTGCCCCT GCCNTGCTNA 300
ACAACCTGTN ACAGGCACTT CCAAGGCCAG AACCACAGGG GCTNACTNTC GAN 353

SEQ ID NO:4526
LENGTH:174
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS05372
SEQUENCE DESCRIPTION:
GATCTGGAAT AATTATGGTA AAATAATAGT ATTTGCTAAG ACTAGATGAT TGGTGTACTG 60
GATTTTCATCC GCTATTTTCT AAGTTTGTGA TGAACGCTTA AAATATATAT GTATGTAGTA 120
AAATTAATGT AAATTTGTAC AAATAAAAAT AAATGGCATG TGATATATGG CAAA 174

SEQ ID NO:4527
LENGTH:201
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS05373
SEQUENCE DESCRIPTION:
GATCATGTGT TTGGGGGCTT TTAGGGGACC CAGCTGCACT GGGGCACTGC CCGTGGCCTG 60
GGTAGGACAT TTCCAGCAA GGGCTGGAGG AGTTGCCGTG CCTTCAGCCT GAATCGAATG 120
TCAGAACCAG CCAGCGGTGC TTCACCCTCT TGGGGATAAC TTGCTTAGTT TTTAATAAA 180
TGTTCTGGT TGGTTTTCAA A 201

SEQ ID NO:4528
LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05374

SEQUENCE DESCRIPTION:

GATCTATGAA GCCCACC AAC AAGGCCGAGG GGCTCTGGAG GCATTGCTAT GTGGGGGACC 60
CCAGGGGGGCC TGCTCAGAGA AGGTGTCAGC CACAAGAGAA GAGCTCTAGT CCTGGACTCT 120
ACCCTCCTCT GAAAGAAGCT GGGGCTTGCT CTGACGGTCT CCACTCCCGT CTGCAGGCAG 180
CCAGGAGGGC AGGAAGCCCT TGCTCTGTGC TGCCATCCNG NNNGGNTCCT CCAGCCTCAG 240
GGCACTCGGG CCTGGGTGGG AGTCAACGNC TTCCCCTCTG GACTCAAATA AAACCCAGTG 300
ACCTCAAA 308

SEQ ID NO:4529

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05375

SEQUENCE DESCRIPTION:

GATCTTCTGA GCTTGTTCCT CTGCTGGGTG GGACAGAGGN CAAAGGAGAA GGGAGGGTCT 60
AGAAGAGGCA GCCCTNCNTT GTCCTCTGGG GTAAATNAGC TTGACCTAGA GTAAATGGAG 120
AGACCAAAAG CCTCTNATTN TNAATTTCCA TAAAATGTGA GAAGTATATA TATACATATA 180
TATATNCCTN TAAN 194

SEQ ID NO:4530

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05376

SEQUENCE DESCRIPTION:

GATCTTGATT GATAACTGCC ATGATATTTT GCTTTGATGT GTTTCTACAT GTGGTTGCAC 60
ACGGTTCAGT AAAAATAATG CTGCTATCGA GTATGCAAAT ATTGAAGTAT GATGGTTTGA 120
CTGTATGGNA GTGTTGTAGC AGCCTCTTGT TTTTTTCCCC ATTGCCTCTT TTTTAAAAA 180
ACTTATAAAG TCACTNTTNA TTTTNCCTCA GTCTTCAATG ACGAGAGCAA TATTAAGANG 240
ACATTGCTAT CTAATNNTNA ATCTTNTTAA ATGAAAAATT CCTATGTTCA GTAGCGTGGT 300
TGATGCTATT GTGN 314

SEQ ID NO:4531

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05377

SEQUENCE DESCRIPTION:

GATCGAGTCA GCATAAATTT CTAAGTCAGC CTCTAGTCGT GGTTCATCTC TTTCACCTGC 60
ATTTTATTTG GTGTTTGTNT GAAGAAAGGA AAGAGGAAAG CAAATACGAA TTGTACTATT 120
TGTACCAAAT CTTTGGGATT CATTGGCAAA TAATTTTCAGT GTGGTGTATT ATTAAATAGA 180
AA 182

SEQ ID NO:4532

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05378

SEQUENCE DESCRIPTION:

GATCATGAAA CTGGTTTCTG TTTTATGCAG TTGTCATTTG TAAAGNCTAA TAAAATATNC 60
TCTATAATTN CTTCTAGATT AAAAAAATAT GACAATCTTG TAAGTAGCAG ACTATGGAGA 120
AAAATGAGTT ACCTGGNGGG TCAGGTAAGT TGCCAAACTN AAANGTNTGT TAGTTGAGGC 180
AAAGTCCTAA GCAAGGTTGT GCTATCANGG CTCAGCATAC CTTCTGGGGC CTTTGANTTA 240
CCANCACTGG AANTGCCTGC CANCTAATCT GGGGTAGATT CTTTAAGGCA TTCCACTTAG 300
CTTGCCAGTT GNGN 314

SEQ ID NO:4533

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05379

SEQUENCE DESCRIPTION:

GATCAACTAA TAGCTCTGCT AGTAATTGAT TTATTTTNCT TCAATAAAGT TGCATAAACC 60
AATGACTTAG CTGCCTGGAT TAATCAGTAT GGGAAACAAT CTTTGTAAA TGCAAAGCTG 120
TTTTTNGTAT ATACTGTTGG GATTGCTTC ATTGTTTGAC ATCAAATGAT GATGTAAAGT 180
TCGAAAGAGT GAATATTTTG CCATGTTTCTG TTAAGTGCA CAGTCTGTTA CAGGTTGACA 240
CATTGCTTGN CCTGATTTAT GCAGAATTAA TANGCTATTT GGATAGTGTA GCTTTAATGT 300
GCTGCACATG N 311

SEQ ID NO:4534

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05381

SEQUENCE DESCRIPTION:

GATCGGAGGA CGACCCGAGT CCCAAGAGTG GGGTTTTGCT TTTTAAAAGG AGAGAGGAGG 60
GGTGATGGCA GGGGAGTGGA GGGTGGCCGG GCAGGTCCTG CCGGCGCAGG GAGCCCTCTG 120
CCCTTCACAC TCTCCTCCAA AAGAGCCTCC ATCTGTAAGG AAGCAGGTCT CCGCGAGGGG 180
TTTCTTTCCA TGTNTTTTCC TCCTGTNGTT TTAGAACTTT TTNGAAAAAA ACNGNCCTCG 240
TTTGTAGATT ATAGCATTGA CTTTACACA CATTACACA AGANAAAAAT CCTTNCAAAA 300
TTCTTAAANT NNNCTGGTNC CNNCTTTNNN 330

SEQ ID NO:4535

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05382

SEQUENCE DESCRIPTION:

GATCTCAGCT CCCGTTCCCC AAGCACACTC CTAGCTGCTC CAGTCTCAGC CTGGGCAGCT 60
 TCCCCCTGCC TTTTGCACGT TTGCATCCCC AGCATTTCTT GAGTTATAAG GCCACAGGAG 120
 TGGATAGCTG TTTTCACCTA AAGGAAAAGC CCACCCGAAT CTTGTAGAAA TATTCAAAC 180
 ANTAAATCA TGAATATTTT TAAA 204

SEQ ID NO:4536

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05383

SEQUENCE DESCRIPTION:

GATCACTTGG AGACTCTTTT TTTGCTGGTT TCTAGATAAC TCAGGTAAAT CAGACCTTTA 60
 CAGAGTACAG GGCTAGGTGA NAGANTTACT GANAAATCAC CTGAAAATC CGANGGGCTG 120
 ATATACCTT NNTGTN 136

SEQ ID NO:4537

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05384

SEQUENCE DESCRIPTION:

GATCTATGCT GTGTTTGCTT ATTCTTTAGT TGAACACACT ATGAAGAATT CCAGGTGTAC 60
 TAGTGAATGT AATTTATAGT TGCCAAA 87

SEQ ID NO:4538

LENGTH:305

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05387

SEQUENCE DESCRIPTION:

GATCGACAAC GAGGCCCTCT TCAGCTGCGA GGTCAAGCAC CCAGCTCTGT CGATGCCCCAT 60
 GCAGGCAGAG GTCACGNTGG TTGCCCCCAA AGGACCCAAA ATTGTNATGA CGNCCAGCAG 120
 AGCCCGGGTA GGGGACACAG TGAGGATTCT GGTCCATGGG TTTCAGAACG AAGTCTTCCC 180
 GGAGCCCATG TTCACGTGGA CGCGNGTTNT GAGCCCGGNN NNNGGACGGN AGCGCTGAGT 240
 TCGACGGGAA GGANCTTGGT GCTGGAGCGG TTTCCCGNCG AGNTCAATTG GCTCCATGTA 300
 TTNGN 305

SEQ ID NO:4539

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05388

SEQUENCE DESCRIPTION:

GATCATAAAA TGAATCTTT ATTGTATCTA CACACTCCAC ATTCTTTACT GTGTCCTACT 60

ACTGTATCTT GGCTCCANTG CTGTATTAAA CACCATCTTA AGCAAA

106

SEQ ID NO:4540

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05389

SEQUENCE DESCRIPTION:

GATCCTCCTT TGCATGCAAC TGTAGCTGCA TTTAATGAAT AGTTTGAACC CTTGTNAATN 60
CATTTTTTNA AAAAGAAAGA AAAAAAAAAAC TTCGTGTATG NAACTCAAAG CATGNAACCT 120
TAAGATGTTG CATTCTAAAC TNACANTAAA GACCTTTCCC AANTAAA 167

SEQ ID NO:4541

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05390

SEQUENCE DESCRIPTION:

GATCCATACG TGGCCGCACC CACACAGCAC GTGCTGTGAC NGATGGCTGA ACGGAAAGTN 60
TACACTGTTC CTGAATATTG AAATAAACA ATAACTTTT AATGGTANAA A 111

SEQ ID NO:4542

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05391

SEQUENCE DESCRIPTION:

GATCAGTTCT GCAAGATGCC CATCAACAAC AAGATGGCCC AGTGGGGCAA CAAGCCTATA 60
TGCTGAGCAG GAGGCAGACT TGCAGAGCTT GTTTTGTTC ATCCTGTCCG TAAGGGGTCA 120
GCGCTCTTGC TTTGCTCTTT TCAATGAATA GCACTTATGT TACTGGTGTC CAGCTGAGTT 180
TCTCTTGGGT ATAAAGGCTA AAAGGGAAAA AGGAAA 216

SEQ ID NO:4543

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05392

SEQUENCE DESCRIPTION:

GATCGAAAAT AGTTGGA AAAAAGAAGA GTTGCATCTC TACTGAACAT GTACAGACTT 60
TCTTCTCTT ATTATCCCT AAACAATACA GTGTAAACT AAA 103

SEQ ID NO:4544

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

01414

CLONE:HUMGS05393

SEQUENCE DESCRIPTION:

GATCAGAACA NTNCAAAAAA TTCACACCCC CAAAAAAGNC AAGCTATTAT ATGGCAATTT 60
CGTGATAAAA TATTCATCCT ATTTGTCCTG CATTCTAAT TTTCCGTAA CTAGACACAT 120
CAGTTTTATA ATTAGGGNAA AAATACCTTN TAAAAGTAAA GCGAGCANAG GTTCNNTTG 180
CANTGTTTCAT TCCN 194

SEQ ID NO:4545

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05394

SEQUENCE DESCRIPTION:

GATCTGGTAG GTTGACGAG AGAAAAATAAA TGTGACTTGN GAGNCCACTC AGAGAGGGTC 60
CAAGGGTGAT GGAGAAGGAA GCATGGCCTG GNAGCTTGA AGGNANGN 108

SEQ ID NO:4546

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05395

SEQUENCE DESCRIPTION:

GATCTGCTCT TGCAATGGCC TCACCATCTG GNAGGAGCGA GGCCGGCCCA TCGTTGGCAA 60
GGGCCGAAAG GAGTCAGCGC ANCCCCTGCC CACCTTTNAG CAGGACCTCA CCTGGCTCT 120
GTTGCTGTCC TCCAGGGCGA GCACTTTCCA CTTCCAGAGG GGGCCAGAGG GACTTTGCCT 180
GCCCAGTCTT TGGAGAGCTC AGTACAGGGC AGGAGCTGCT GTGGTGTTCC CTTGGCAAAT 240
NAAAGTTTTA TTTTCGTTT GGNA 266

SEQ ID NO:4547

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05396

SEQUENCE DESCRIPTION:

GATCTCCGTG TGTGCATGN ACTGTGCTGG GTTGAATGT GAACAATAAA GAGGAATGTC 60
CAAGTGTTC AA 72

SEQ ID NO:4548

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05398

SEQUENCE DESCRIPTION:

GATCATGGGG GTGGATTTCT TATGAATGGT TTAGTACCAT CCACTTTGTA TTGTCCCCGT 60
GGTAATGAGT GAGTTCTTAA GAAATCTGGT CATTGAAAA TAAA 104

SEQ ID NO:4549

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05399

SEQUENCE DESCRIPTION:

GATCTTCACA TCTTGGACCT TNGTCAGTTT TGCTATTCAT TATTAAACAC TAAAACTTTG 60
GCGGTTNTTG CAAA 74

SEQ ID NO:4550

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05400

SEQUENCE DESCRIPTION:

GATCTGAAAT CACATCCAGC TCCTGATGTT TTCTTCTCCC TCTGACTGCA GAGGAAGTGT 60
TCCTACCTGC AGGAAGGCAC CTGTCACACA GGGCGTTCAC TCAGACCATC TGTGCTCTGC 120
CCTGAGTTCA GTTGAGAAAA TCCTATTATC AAATTTGGNT TTCCTGGCCC CAGAACTTCC 180
CAAAGACCTG TAAAATGGAG GGATTTACCA CCTCACATAT GTCCAGTTAA ACAGTTTGTG 240
GACTTGTAAC CGTCGCAGCC CANTGGTACA ACAGTAGTTT AATCACGGGA AA 292

SEQ ID NO:4551

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05401

SEQUENCE DESCRIPTION:

GATCGGATGG GCAAGTCCCT GCCAGGGTCT CCAGATGGCA ATGGAAGCTC CTCCTTGCCC 60
CACTGGGAGT AGCGGCTAAA GCTGGGGGAT AGAGGGGCTG CAGGGCCACT GGAAGGAACA 120
TGGAGCTGTC ATCACTCAAC AAAAAACCGA GGCCCTCAAT CCACCTTCAG GGCCCGGCCC 180
ATGGGCCCCT CACCGCTGGT TGGAAAGAGT GTTGGGTNGT TGGCTGGGGG TGTCAATAAA 240
GCTGTGCTTG GGGGTCGCTN GGAAA 265

SEQ ID NO:4552

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05402

SEQUENCE DESCRIPTION:

GATCTATGCT CTTTCAAATG GAGACTGGGA TATTGTTGTT TTAAGACCAC TGTTTTCTTG 60
TTTCTCCCA AATNTTAGTC ACATATATNA TTACCCTTAA GTTGGTCACT ATCTATCTAT 120
CTGTCAATAA TTCAGGATTA AAGTTTGAAG TGTAATTACA TTTGANTTTT AAA 173

SEQ ID NO:4553

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05404

SEQUENCE DESCRIPTION:

GATCGACCAG CAGGTGGTCT ATATCCATCC TTCCAGTGCC CTCTTCAACA GACAGCCAGA 60
ATGGGTNGTG TACCATGAGC TNGTGCTCAC CACCAAGGAA TACATGCGTG AAGTTACCAC 120
CATCGACCCT CGGTGGCTTG TGGAGTTTGC CCCAGCCTTN TTNAAGGTCT CAGACCCANC 180
TAAGCTAAGN AANCAGAAGA AGCANCAGCG TCTTGGNACC GTTGTACAAC CGNTATGAGG 240
ANCCCAATGN CTGGGAGAAT ATCTCGGNGN 270

SEQ ID NO:4554

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05406

SEQUENCE DESCRIPTION:

GATCGGGTTG AGCCCAGGAG GTTGTGGCTG CAGTNAGCTG TGATGTGCC TTATGCTATA 60
GCCTGGGCAA GAGCGTGAGA CCCTGTCTCA AAGAAGAAAA AAAGAGAAAA ATA ACTCTTT 120
TGAACAAACA GNCAAATTAG CTAGTAGTAT GGAGATGTAT ACCCTCTATT ACACACATAA 180
AACCCTAACA AAATTCATTG NGGTGTATTA TAGTTAGTTT TGTGAATAGA GAAATAAAGC 240
ACTGATGNTT AANNTTGGTT ACAGTGACTT TTAGAAGGGN TTNNTTGNTG GTTCACATTN 300
GTCAGAANTT TTTTCCNNC NNGGCTGGTT CAN 333

SEQ ID NO:4555

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05407

SEQUENCE DESCRIPTION:

GATCTCCCCC TTCCCTTGNG GGGCACAGCT GGCCTGGGCC TCCAATCCTG CGGANTTTCC 60
TGGGTGTGGC TTTGACCTCA GAAGTGGCTC TGGTTTGGCC TCAGGAGTGT GGCCTGGCCC 120
AGCCTGCTGC AGCCTCCTGT GGNNGGCCCT TNATGCCACT AATCCCCNGA CCCCCGGAT 180
NTTNCAAACT GNACAGACAC ACGNATTGTT AAGGCCGCTT ANGGCCTCCA GCGTGCACTC 240
TTNTTTANGN 250

SEQ ID NO:4556

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05408

SEQUENCE DESCRIPTION:

GATCAATGCA NCGACGTNGG GCTCATGGCC TACCTCGGCA CCATCACCAA AACGNGCAAC 60
ACCATGAACC ATTTTGTGAA CAANTTCAAT GTCCTCTACG ACCGACAAGG CATCGGCAGG 120
AGAATGCGCG NGCTCTNTTT CTGATGAGGG TACTTGAAGN GGCTGATGGA CAGGGGTCAN 180

NGCAACTATC CCAAAGTGGA GNGCACTACA N

211

SEQ ID NO:4557

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05409

SEQUENCE DESCRIPTION:

GATCTTTTTT CCATTGGTTA AACATTTAAC TCCATGNCAG ACCTTGTTTT AACCCCTCTC 60
ACATCATGTT CTTTCCTTTT TTGCGAGTTA TTTTGCATTA ACCAACTTTG TCAGTGACAG 120
ATGCGTATCT GAGGGTGTCA CACACGACCN TCAGCAGGGA AGACTTCTGG GCCATGGAGG 180
GCCGTCTAAT ACATGGACTT ATAAACTGAC TGCNTGGGCA ATGAAAAGGC CAAATTATTC 240
TGAATTTTTT TNGAATCACT GTAAAAAAC TGATTNTTN NTGTATAGAG ANCACTTAAA 300
CGGTGGAN 308

SEQ ID NO:4558

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05410

SEQUENCE DESCRIPTION:

GATCCAGCTG GCTCATCCCA GCCCAGGTGG GCCAATTATT CAATTTTNA GAATTTTGTT 60
GCAAGCCAGT TGTCAAACAC AGCCATTATA ATTATGTAAA TTTGCAANTT ATGTAAAAA 120
CAAGGACAAT AAATATTCAA AATGCATCCC TAATTACTAC ATTTGACCAC GNAAA 175

SEQ ID NO:4559

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05411

SEQUENCE DESCRIPTION:

GATCTTNACA ACTGTTTAAT CAGTTTTATT TTTGTACAGT ATTAGTGACC TAAGTNATTT 60
TGCTGTCCCG TTTTGTAAA TCAANTGAAA NTATAAAGA GGCTTGTGAC AGTAGGTATT 120
TTGTACATAT GTATATATGT TGTCCAAATA AAATTAATA ANTGGTNAAA GGCTGAAA 178

SEQ ID NO:4560

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05412

SEQUENCE DESCRIPTION:

GATCTTCAGC ATCTTTTACT TTCACCAGCG TTTCTGGGTG AGCAAAAACA GGNAGGCAAA 60
ATGCCGCAAA AAAGAAA 77

SEQ ID NO:4561

01418

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05413

SEQUENCE DESCRIPTION:

GATCCCAGGA ATATTGTAAA TTTTCTAACT TTACTCTGCA TTTTGTATAT CTGGCCTCTA 60
TTGCCCTTGA AGGTGAAGAT GAAACTGTCT TTAGAAGATA TCTCTTTGAT TCTGTGATAG 120
AAGTCCCTCA CATCTGTAT TAATTTTATG TATATATCAA CGGTGGTTGG TCTTTAAAAA 180
AATAAATCAA AAGAATANGT AAA 203

SEQ ID NO:4562

LENGTH:352

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05414

SEQUENCE DESCRIPTION:

GATCAACCCA CATTAGAGTG TCTAAGGACT CCTGAGAATT CCTGTTACAG TAAACAAAAC 60
TAACGTAATC TACCATTTCC TACACTATTT GAGCATGGAA ATCATAGTCC CCACTCTGTG 120
AAAACCTAAC GCTTTTTTGA AGACATTTCT GTAGCATGTC AGTTTGGAGA AATGATGAGC 180
TACGCCTTGA TGAAAGAACC GTGTTGGTGC TGCTAAGTTT AGCCATTATG GTTTGNGCCN 240
TTNTCTNTCT TAAGGCCTTA TTCTTTCAAC TAAAAAGNTG GGGGATTNAG GNGCCAAGGN 300
AGNTTGGGGG GGGGNTNNTG NAAATTAANT TTTNTTGAGG GGTNGGCNTA GN 352

SEQ ID NO:4563

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05415

SEQUENCE DESCRIPTION:

GATCCGCAAC CTGGACCCCA GTGAGAGGCG GTGGGCTGAC TGGGAAGNAG AGGCCCCCAA 60
CCTACTCAGG ATTTNCACGT GTGAACTAGG CTGCCTGTGG GGTGCCCCTT AGGCTTGGAG 120
AGCCCCAGAT TGGAGGCAGA CAGACTGCAC CACCCCTTCC CCCCCTGCAT CTCAAGAATA 180
AAGCAAGCTG CCTTTGTACT TGGTTGNAAG 210

SEQ ID NO:4564

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05416

SEQUENCE DESCRIPTION:

GATCANATAG TTGCTGTTTT GTAAAATGTA ATGTATATNT GGTTTTAAGT AAAATAGGGC 60
ACCTGTTTCA CAAA 74

SEQ ID NO:4565

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05417

SEQUENCE DESCRIPTION:

GATCCAGAAA CTGAGAAGCT TATCCGAGAG AAAGATGAGG AGCTGCGGCG GATGCAGGAG 60
ATGCTACACA AAATACAAAA ACAGATGAAG GAGAACTATT AACTGGCTTT CAGCCCTGGA 120
TATTAAATC TCCTCCTCTT CTCCTGTCC ATGCCGGCCC CTNCCAGCAC CAGCTCTGCT 180
CAGGCCCTT NAGCTACTNC CACTTCGCCT TACATCCATG CTGACTGNCN AGAGACTNAN 240
GNGGCANTAA AGTTTAATAA ATCTGTAGGT GGCNNANAGA AAAAGAAAAA AACAAAAANA 300
AAA 303

SEQ ID NO:4566

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05418

SEQUENCE DESCRIPTION:

GATCGTGTTT TAACTTTTTTCT TTTTCCTGTT TTTATTTTGG TATTAAGTCG TTGCCTTTAT 60
TTGTAAAGCT GTTATAATAA TATATTATAT AAATATATNA AAAAGGAAA 109

SEQ ID NO:4567

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05419

SEQUENCE DESCRIPTION:

GATCTGGAGG CAGCAGTGCT GGATGGAATT GTCTAGGCTG TGGCATGTTG GTTTTGTCTT 60
TCTTTTCTCC TTTGATTATG TAAGAGCTAT TTCATTATAA CTTATTATGG TGATTATACA 120
GGCAAGAAGA CAAAAAGGAG AGAAAATGTA CCTCTTCTAC TGGAATAATG TTTATGATTA 180
CAAGTGAGAT AAGGTATTTT NATCAATATG AAGGCAACCT TGGCTGATAA AACCTCTATA 240
GTGAATACTC ACATCTTTNA CTTCACTCAC TATCAATAAT AAATATATTT NCTGACAANG 300
AAA 303

SEQ ID NO:4568

LENGTH:230

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05420

SEQUENCE DESCRIPTION:

GATCTCTTTT GTAGAGGATT TCAATGTATT TCTTTATCAT TTGAGTGTGT GTGTGATGGA 60
CGAATATGTG TGTGAGTTTG AGAAGCATAT CGTTCGTGTC CAGTTACTTT GCAAATTTGT 120
GGACATTTGT GATTGGACAG AGGGGTTTGT GCTGTGGCCT AACACTTGCC AAGTGAGGTG 180
TAGGTTATGC CTATATGCAA ATTAACTTC ACCTTTCTTG AATATTCAAA 230

SEQ ID NO:4569

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05421

SEQUENCE DESCRIPTION:

```
GATCCCAAT TGACTCAGAG TTTGAGGAGT TAGTATCACA GAATTAGATT TTTTAAAGC 60
ATTTGTACGT TTCCATTCCC AAATATGTAG CTGTGGTTCT TGAAACACA TCCTACATTG 120
CATATGGGCA TAGCAGTTTT TGACCCAGGC AGAATAAGTT AATATTTAAT TAAATATTGC 180
TTTGAAGATG GCGCTCTGGG CATGAGCATG GGGCTCCATG ACTTCCCTTC TATCCCATG 240
AGCCCTCCT NCATCCAGCG ACAAGCCATG GGCATGCATA CAATGCAGCA AGACCAACAC 300
ANGNGCAATA TTGAATTGGN TCATTCTATC TAAAAATTAC ATGGGGNGGG ANGNTN 355
```

SEQ ID NO:4570

LENGTH:353

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05422

SEQUENCE DESCRIPTION:

```
GATCAGAAAT AAACGACAAA TAGTGTGAGA TGTGTTGTGA ACAGGCATGG TGACCGTGGT 60
CAGCGCCACT CTTGTTTCCT GAAATGTGCT TCTAAGACAG AAAATGTATT TNCTCATCAA 120
GGGTGTCTGG AGACACAGAC CGTGACCTTG GCGCANGGTG TGCATCAGAG GCGTGTGCTG 180
AGAAGGGTGG TGTTAAGCTG TGAAAATGA CTCAAGAGCA ATAAATCAGT GCCAAAGCTT 240
CCCTGCGCAT CTGAATAGNC ACAAGTGAAG CCCGTGTGCG CACAGTGCAG AGGCCNAGNC 300
TGTATTTCCA GGTAGNGTGG CTTTATTGA CTGTGAATCC ATTTACCTGT TAN 353
```

SEQ ID NO:4571

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05423

SEQUENCE DESCRIPTION:

```
GATCGGGTCT ATTTACCCA ATAGTCACTT GTGTGTCCCC CGAAATTGGG ATGGGTGAGC 60
ACCTTGCTG TGGTGTAAC TTCCTGTTAT TTAATCTCCC CCACGGTTC ATTTTNTNT 120
TCTGTTAATA CTTAGAACTT TCTAAGAAAC TCCATGAAAT GAGGAAATAC TGTTTCTAAT 180
AATATGAGGA AAGANGTAAA ANTGTTCATT CCANGTGGCA AGTCTTATTG GACACATTTT 240
ANATAAGNTC ATGCATACCT GATAAA 266
```

SEQ ID NO:4572

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05424

SEQUENCE DESCRIPTION:

```
GATCGCCCGC ATGAGGTGCT GCTGTGCTCG GACCTGGTCA AGGCATACCA GCGCTGCGTG 60
AGCGCCGCC ACAAGGGNTG AGGAGCAGAC ATCATCCCT GCCCTGGCAG TGACTTGGAG 120
```

CCCTGAAGAA GGGCCAATCA TGGGACCACA GCCACTGTGC CCTGCCGTTT CCTGCTGGGC 180
CCCTGCATAT GCCCCTGAGC CTGGGGCTGC CACGTGTTTA GGAAACAAAG TATGCGCTAC 240
TGTCTGAAAA CAAATAAAGC AGATGCCTTT GTTTTCAA 279

SEQ ID NO:4573

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05425

SEQUENCE DESCRIPTION:

GATCTAGGCC AGTGGCTGCT TGTCCTTGTG GAGCTGTGTG TNTNCTNCTN TAAGCAGCTC 60
CTCCCCGAG TCCCCAGCA CAGTCCAGG AGATGACAGG AAGGAAGCAC CAGGGCAAGN 120
CGGACGNTCA N 131

SEQ ID NO:4574

LENGTH:413

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05427

SEQUENCE DESCRIPTION:

GATCTCACCT TCCACCTCCT CCGGGAAGTC TTGGAATGG CCAGGGCCGA GCAGTTAGCA 60
CAGCAAGCTC ACAGCAACAG GAAACTCATG GAGATTATTG GGAAATAAAA CGGTGCGTTT 120
GGCCAAAAAG ANTCTGCATT TAGCACAAAA AAAATTTAAA AAAATACAGT ATTCTGTACC 180
ATAGCGCTGC TCTTATGCCA TTNGTTTATT TNTATATAGC TTGAAACATN GAGGGAGAGA 240
GGGAGAGAGC CTATACCCCT TACTTAGCAT NCACAAAGTG TATTCACGNT GCAGCAGCAN 300
CACANTGTTA TTCGTTTTGG NCTTCGGTTT NGTTNCCGGG GNCAGGTGTT TTTATTAGTG 360
GNGTTTTTAA AAGGNGGNTN GTNGGGACCC TGTGGAGNA NAANCGGTTT TGN 413

SEQ ID NO:4575

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05428

SEQUENCE DESCRIPTION:

GATCACGCCA CTGCACTCCA GCACCCTGGG CGACAGAGTG AGACCCTGTC TCAAA 55

SEQ ID NO:4576

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05429

SEQUENCE DESCRIPTION:

GATCTGGCGT TGCCAGGCAT TCTGTAAGGG AGGGCTTTTC CAGTTCCTGG AAATGGAAC 60
GGAAATNTG GCTGGAAACA TTAATATGGC TGGAAATGGA AA 102

SEQ ID NO:4577

LENGTH:420

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05430

SEQUENCE DESCRIPTION:

GATCCAAGCT GCTTGAGGGG GTCAACCTTG GACCAAAGTT GCCTTAAGCC TGTGGTAAAA 60
GGGCTTCAGG GAAGGTAAGT GGGCCANCTG CTGGAAGCTG CCAGCTGCCC GGNTGGCAAT 120
GGTGTGAGTG TCTTGGCCCT GTCCCTGCCC TGGGGTCCAG CAGGTNATCC CTCCCTTCTT 180
CTCTCTCCTT TGGCGTTTGT TCCTGTAGTC ACTGGGCTAA TCTCCCCCTA GCTTGAAGCT 240
GTACATAGGG CCTCCNAGTG CAAATGNTNC TGNCCATACC GTGCACCCTT AGAAGCCTGC 300
GTGTGCATAG AGCGCCCNNT ACTTNCCAGT TAANTTCCNA GTTCTTGTTN CNTGAGCTTG 360
GTATTTTGTG ATGTGNCAAA TTCTGACTTT TGAAGGTTGG GNAAGTGAAG GGAATTNAN 420

SEQ ID NO:4578

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05431

SEQUENCE DESCRIPTION:

GATCTGGGAC GTCCACGAGT GAGGGGCTGG CCACCCAGCC CGACAGCCTT GCCTGACCAC 60
CCTCCAGCAG ATAGACGCCG GCACCCCTTC CTCTTCCTAG GGTGGAAGNG GCCCTGGGCC 120
GAGCCTGTAG ACCTATCGGN TCTCATCCCT TGGGNTAAGC CCCAGTCCAG GTCCAGGAGG 180
NTCCCTCCCT GCCCAGCGAG TCTTNCAGAA GNGTTTAAA AGGGTTGCAG GTNCCNACCA 240
CTGACCCTTC CCGNTGGCC TNCTTGCNCA GCTTANAANC TTAAAGTCCA GNACGCAGTA 300
ACCTNTN 307

SEQ ID NO:4579

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05432

SEQUENCE DESCRIPTION:

GATCCCTCTC CAAAGTGGTT GTCTTTCTNT ACCTTGTGTC TTCTCTTGTA AAAATGAAAC 60
TCAAAAATAA AATAAATGTG TCAAATTTTG AAAAAAANG AAAACTGAAA AAGCTAACAT 120
GANTTGTGTG AAATTGCATA ATGCTGTANT GCTAATCTAC AATATGTAAT GCTATCTTGT 180
ATGTNGNATT TGTAATGCA CCACACAAGT GCAANGTAAA GACTGATTCA CNTTGNNNN 239

SEQ ID NO:4580

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05433

SEQUENCE DESCRIPTION:

GATCTGACTG TACTAAATAT GAAAAATAAA GCAGCACATA CTTTCTCTAA A

51

01423

SEQ ID NO:4581

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05434

SEQUENCE DESCRIPTION:

GATCCATATA ACTGTTGGGT GCATCAGTGC TTTNAAAGG GGCTGCTTAC TATAGGGTTA 60
ACTATGTATA TNCATTGTTA AGAGTTAACT TGTGGTTTGG CTGTTTCCTG GATTNATAA 120
CATACATGTG CAGAAATGTA TTCAAATGAA AGGNAGCATA CCTTTATCAN GATGCTATTA 180
AANTTGANCA TCGNGTNTAA A 201

SEQ ID NO:4582

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05435

SEQUENCE DESCRIPTION:

GATCATACAG TGAGGCTACA GTGACTGAGG GGAGAATCCC CTCCTGTTCA CTCTCCCAAC 60
CCTGCTCCAG CCCCTCAGCT TCCCAGACCC TCATGCANTT GGTGTAAAT NCTCCCAGGA 120
GCTGTTTTAC TGTCTACTTT TCAGGATTAA AAAAAANNNN AAAACTTAAA 170

SEQ ID NO:4583

LENGTH:393

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05436

SEQUENCE DESCRIPTION:

GATCGGACTC TGCCCCTGGA CCTGGGAACG ACTGGACTGT CACGGGGTTA CCTCCTAGCT 60
CTCCAGTGA ACTCCTGCCA GGCACACACA GCCCCTATAG CACTGAGCTC ACATGGGACT 120
GGGATATGGG GGCATCTCTT CCCAGAGAG GCACTCAGTG AGCCTCCTGT GCCTGGNCCC 180
AGCCTGGGCC ATCTCTTAGG TGAGACAGTT GCCCGAAACT AAGCCAGGCC TGGCTGGAGG 240
AGCAGCAGCT TGGGGAGAGG GATTTCCCTG CAGACCTCAA GCCATCATGC GGTGGGTGCT 300
GCCATGACAG AGGCTGGACC NCTGGGCCAG CGGGGTTGCT CAACCACCTT TTGTGCAAGG 360
TGGCCTTTGT GCTTGCGCCT GCAGGCAGAN GTN 393

SEQ ID NO:4584

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05437

SEQUENCE DESCRIPTION:

GATCCTGCCC GAGGAGGAGG ACGAGGGTGC CGACTCCTAA CCCC GCCAGG CAGCCTCGTT 60
CTGCACAGGC ACTTTAGCCC GAGCCAGGNA CACCTGCGAG GGGGCAGGTG TGCTCCGCCG 120
CCCTGCTGAT AAGCTGGCTT CATTAACTG ACACTTCTCA AA 162

SEQ ID NO:4585

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05438

SEQUENCE DESCRIPTION:

GATCTGTAGG GTCAGGAACA CAGCACCTAA CACAGTGCCT TATGGATAGT AGTTTTATAA 60
TACAGATGTG TTGGAAGAAT AAATGAATGG GTCCTTTTCA AACAAATTCA CCAGAAGTTA 120
AA 122

SEQ ID NO:4586

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05439

SEQUENCE DESCRIPTION:

GATCTGTAC CTTCAGCGAG ACCTATTTCC TCCCCACCCC CAGAAACCTC TTGTGTTCTT 60
GCCTAGGCCC AGGTGTTCTT GGCAGCCAAA TCGAGTCTCT CATTTTCTCT TGTGGACCAG 120
TTAGTTTTC CCATAACGCA GTATTCTGAG TTTGCAACTG TCTCTCTGAT GTGTGCCTTT 180
TGTTCAACAC AGTAACCCCT GCATTCTGCT CTGCTCTAAT AACTACCTG GAGAAAGTCT 240
TTTCCTTATT TTCAATAAAT GTCAGACATT ATTGNAAGA AAAAANTN 288

SEQ ID NO:4587

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05440

SEQUENCE DESCRIPTION:

GATCCCTATG TGGCTAACAG AATTAATGNT TCCAAAAATG TTGNAATTA TATAGTNCTC 60
TTAATTCCTT ACCTCTAACT ATATTTTGG GTTATTTCTT TAGGAACAGA TGCCAGGAG 120
TCATATTACT GAGAATCTAG AAATCTTTTG CAAAGTTCTT GTTATNTGN CAAATGCTT 180
CCCNNTNN 188

SEQ ID NO:4588

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05441

SEQUENCE DESCRIPTION:

GATCTGCCCC CCTCGGCCTC CCAAAGTGCT GGGATTACAG GCGTGAGCAC CAGTGCCCAG 60
TCCTGCCACA TCTTTTTTGT TAGTTGCAGT AGCAATACAA CTTATCTAG AAAAGCTGGC 120
CAAAAAAGAA AATACCATGA TAATAGGGTA CCTAATTTAT TGCTTTATTT AAGAAAAATG 180
TAATATTTCA TTCGAATAAG TACTTTTGGG CTGGGATGNT ATTCATTTA GCTACTTGGC 240
ATGCCACCCA TCTTAGGGAA TTATATGAGG GTTTATACTT TAAAGTN 287

SEQ ID NO:4589

LENGTH:289

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05442

SEQUENCE DESCRIPTION:

GATCAAAATT TCAAGTTGAC AAATTGGAT TTGAAACTC ATTCACTTT TCAATTTTT 60
TAATGAGGCA TAACATGCAT ATGGTTAAGT GCACAAATCT TAAGTGTACA GTCAGTGAAT 120
TTTTGCATGT ATGTATGTAC CTGANGCAAG ATATAGAACT TATTTACTTG TAAATAACAG 180
CTATATTGAT ATGTCACATA CCAANANTT TACCCTTTAA NTTATACAAT TCAGTGGTTT 240
TTNGTATATT TGCAAAATTG TGCAACCNTC CCNACCATCT AATTCTAGN 289

SEQ ID NO:4590

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05443

SEQUENCE DESCRIPTION:

GATCCTCAAA GAAAGATTTG TTAGAGATAG ACAGGTTTAC AATTTGTGGA AACCGAATTG 60
ACTGAATCTG TGGCTTCATG CGCTGAAGAA GCTGGGTCCT GGGGCAACAA GTGCTGTGTT 120
GCCAGGACAA ATAGATGCTA AACATGGCAC TTAAATATTT ATTTAAAAAC TTAAATTATT 180
ATTGGCAAGC AAATCTTAGT ATCTTTCTTC CAGTAATATG GCCTGGCTGA GGGTCAGACC 240
ACAGGACAGG NGCGACCTCC GGCCTTGACT GTCTGGGAAG CTTGATGGAT TTN 293

SEQ ID NO:4591

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05444

SEQUENCE DESCRIPTION:

GATCCACTTA GAGCAATAAC CACTTTTTAA ATGTAAAATA AAAAGACAAA TGNAAAGGCA 60
AA 62

SEQ ID NO:4592

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05445

SEQUENCE DESCRIPTION:

GATCTTCCCA CTGCACTCCA GCCTGGCCAA TAAGACCTGT CTCCAGCAAG ACCCGNGTCT 60
CAAA 64

SEQ ID NO:4593

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05446

SEQUENCE DESCRIPTION:

GATCTAGATT CATTAGGAAT GTNTTCTTGT CAGCCAGGCC AGGACCCGGG CTTGCCAAGA 60
GCAGAGGCCC TCCCAGCAAC CAGGATACCA CCACTTTGGG GGCTTTGTGT ACAGAGGTCC 120
GGGTCTGAGA CCTCATAGGC TGCAGAAATC TGGGGCAGCC ACCATCAAGA AGCCCCTCTC 180
AGGGGCCAGA ACTCCTTTGC CAGCGTGGAT TTCTCAAGTC GGGACTGCAT AATTAAAGCA 240
GTTGCAGTTT TATTTTTTTT ACAGCTTTT TCCCAAAAAT GATTTGTAGT TGTGTGTGCA 300
GCACTTTCGG CCTGATATGT GTN 323

SEQ ID NO:4594

LENGTH:70

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05447

SEQUENCE DESCRIPTION:

GATCAAAAAG ATAAGTTTAC AAAGTTGAGA CCTCTCATAA AACAAATGAA TAAAAATTC 60
CTCTTGTA 70

SEQ ID NO:4595

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05448

SEQUENCE DESCRIPTION:

GATCACCTGT GCCTCCCCTC CCCCTTTGTT TGCCCTGTG TGGTTGGTCA AGGAGGGATG 60
TGAGGGNAAT AGGGACCCCC CGACTTGCCC TCCTGCCTCA GTCTTCCCC CACCCTGTCT 120
CTTCCTTGTC CTTCTCTGGA AAATGCCAAA ATACACGATG TGAATAAAAG TACAACGGCT 180
AAA 183

SEQ ID NO:4596

LENGTH:70

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05451

SEQUENCE DESCRIPTION:

GATCTATAAT TATGCCAATA CCACACTGTC TTGATTACTG TAACTTTAGA ATAAATCTTG 60
AAAGTAGAAA 70

SEQ ID NO:4597

LENGTH:202

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05452

SEQUENCE DESCRIPTION:

GATCTGCCCTG TCAGAGTCCA CGTGTCTCTGG TCACTGGTCT TTATAATTGT TGTGCAATAA 60
 CTAAAGGCTA AGGACTAGAT GCACTATCGT GTAAAGAGAT TACACATGAC TGTACCATGT 120
 TGCACCTAAT CAAATAGTAT GTGGGGNTTT AAAATCGCTT GCATTGTTTC AAAAAATAAA 180
 TATCTCAATG TCAAATACTA AA 202

SEQ ID NO:4598

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05453

SEQUENCE DESCRIPTION:

GATCCTGGNG CCTGGACCGG GCTGGANGAC AGCTGAGNAT GGGCCTAGCA GATGAAGCTT 60
 GCCAGCAAGG CCAAAGCAAA CGGTTTCTNC TGTGGATAGT GGACAGAGAC CTTTGTAACC 120
 AATGGAATTA TTCATTTTNC TCTATCNNN 149

SEQ ID NO:4599

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05454

SEQUENCE DESCRIPTION:

GATCAAGCAA TGGAAAAATT TGCACCACCG TGTCCCATGA AATTGTTTCA ATGTTTAGTT 60
 TAGATATTGC TAACTTGTGC TATTAACCTT TTGACAAGCG TGTAAGTATTG TTTGTTTGG 120
 GTTCTTTTT GATTATAAC TATTTAGTAG TCCCCAGCTA GCTACCAGTA CAGATTTTAC 180
 CCCATGGGTA GGATTCTATT GTTAAGCCAC ATAACAAAGC AACTAATTC TGACANCACT 240
 GCAAATGGAA AATACGAACC AAAAAAAGT TACACCGATA AGTTCANCAA ACTGTCCATT 300
 TTTGGATATT N 311

SEQ ID NO:4600

LENGTH:221

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05455

SEQUENCE DESCRIPTION:

GATCCTGCCT TTTCTTTTTC CCCACAACCT CACGCCAGNA GTTCGTTTAC ATCAGGTAAA 60
 TCTTGAGAAA GCCTTGGTGC CCTCCTCCCC ACCCCCCACT CAGTAACCAC GTGCGTGCAC 120
 CCCCAGTATC TTTCTCAGTA GTTAAGACGT TCTAGGCAAT ACCATAGACA CATCTGACTG 180
 TGTCTCTNTC TTTGAGTGCA AGAAACTCAA GTNATCTTAA A 221

SEQ ID NO:4601

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05456

SEQUENCE DESCRIPTION:

GATCAGAGCA GCTACACTGA AGCAAAAACC CCAGCGCCCA ACGCTAAATA TATTGCAATG 60
GAGAAACCGT CCACAATGGG GTGTCTCTGT CCTTAGCAGA GCCTTGGGGC TGCCGTTTAA 120
GACCCTCCTG CTACTCCAC CTTTTAGCA TCTAGTAAAC CACGCGCTGT AACAAA 176

SEQ ID NO:4602

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05458

SEQUENCE DESCRIPTION:

GATCTCTATC ACTTTGCCAC CTGTTTGATG TGCAGTGGAA ACTGGTTAAG CCAGTTGTTC 60
ATACTTCGTT TACAAATATA AAGATAGCTG TTTAGGATAT TTTGTTACAT ATTNGTAAAT 120
TTTNGAAATG CTAGTAATGT GTTTTCACCA GCAAGTATTT GTTGCAAACCT TAATGTCATT 180
TTCCTTAAGA TGGTTACAGC TATGTAACCT GGTATTATTN CTGGGNCGGG CTTNTTTAAA 240
ATACNAGNCC NGGCCAANAN AAANTAGGAN CAAAAACCTN GGGGGTTCTG AAA 293

SEQ ID NO:4603

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05459

SEQUENCE DESCRIPTION:

GATCAGGGAT GGGGATGAGG TGAGGGGATT TGCTAGAAAG GGGTGCAAAG GAATTTAGCG 60
GGTGATGGAG CTGTTCTGTG TCTTGATTGT GGAGTTATTA CAAGACGGTT ATTACAGTTT 120
TGTNGTATTG AATTTTACTG TATGAAAATC ATACCGCAAT AAACCTCACT CACATACGCA 180
CAAA 184

SEQ ID NO:4604

LENGTH:372

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05460

SEQUENCE DESCRIPTION:

GATCAAGGAA TCTTTCATGA AGGAAATTTA AATACAGAAT GAAACATTAA NGGTAAAAGT 60
GGAGTAATTA TTAAATTAT GTGTATAAAA GGAATCAAAT TTTGAGTAAA CATGATGTAT 120
TACATCATCT TCGGAAATAG ATATGATGGA TTCTAGTGAA GACCAAANTT ACTTCTGTTT 180
ACTTCTATC AGGAAGCATC TCCATTGTAA ATATGTATTT NCATGTTTAT TACAAAGACC 240
CAAATGANAA NTTTTNNGTC CATTTTNGC ATAGCCTAAT GGTAGACTNG GAATAANAGT 300
TCTGTATTTN TGGGATTTC NGNGTATAAN NCTGGTTTCT AGNTGGGGCG TTAAGTCCCN 360
TTTGGGTAAA NN 372

SEQ ID NO:4605

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05461

SEQUENCE DESCRIPTION:

GATCATGTAG GACGCGGCAT CCTGCCCCTG GTAGAGAGGA CGAATGTNCC ACACCATGGT 60
GTCTACGAAA AANAAATAGT TAGTCACCTT CTNACCTTCT CCTCTTTCTC AAAGCCTTCT 120
GTCCCTGGTT TTTGCAAGTN CTGCATTTC GCCGAGAATC CGCGTTGCCT ACTGCTGCCA 180
CCTCCTGTNC ATTTAGAACT ATGCAAAGAC TCCGNTTCCG TTTTCCTGAG CTCCTNGGGC 240
CCCAGAGTCT CTGTTTGATT ATTTATTTAT TTATTNAGN 279

SEQ ID NO:4606

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05462

SEQUENCE DESCRIPTION:

GATCGAATTT CACATTGTAG AGATGTATAG CTGTGATTAA GCTGCATATG TATGCTGGGA 60
AACGGCTTGA GTGGATGGCT AATATAAAAG TTGTTGGCCA TAATGCCACA CCTCTCATCT 120
GCTTGAAATA TGGACCAGTA TTCTAAAGTA TCAGCTACTG GGGTCTCATT CACTACAAGA 180
TAANTTCAAA CTTCACAGNA CTTTGCAGCA GTTCACCACC AGGCGGGACT GTGTCTGCAA 240
ACTCNCTTGT CTTCACAGAC GNCTGATTAA NGCNANNNCT CTGGNNTCTC AAAGATNTAT 300
TGGGGAGTGN NGGTTTTNTG GGNN 324

SEQ ID NO:4607

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05464

SEQUENCE DESCRIPTION:

GATCACAGAC CTAAGGCCCA GGCCACCTNT CCANACCTGG AATCTATGCA NAANTAATTT 60
CCCCTTAACC TGGGAGGCAG CGACACGTGT NACTTCTGTA AGAAACGTGT GTACGTAATG 120
GAACGGCTGA GCGCCGAGGG CCACTTNTTC CACCGGNAGT NTTCCGATG CAGCATCTGT 180
GCCACCACCT TGCGCCTGGC CGTCTACACC TTNANTGCN ATGAN 225

SEQ ID NO:4608

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05465

SEQUENCE DESCRIPTION:

GATCTAAATN CAGACTNNGG AGTTGGGAGG AGGNACCAAA GTGAACCATC CTTCATTTAT 60
TCAGTCATTC GTTCATCTGT CAAACACGTA TTTGGACATC AAGGTTGCAG AGATGAACAA 120
TGCATGGNTT TCATCTTTNA GGAGTTCAAA ACCTAGTGGA GAGANCACAT GGTACAATCG 180
TAACACATGA AGGTCAAGTA AGTNCTGCAG TAAAGGTACT AATAACATGT TCCTTGGNNC 240
AGNAGGATGN N 251

SEQ ID NO:4609

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05466

SEQUENCE DESCRIPTION:

GATCCAAGTG TTGCTGTCA GCAGAGATAG GAGTGAAGTT GATGATGATG GTTAGATGGC 60
CTCACAAGGG ACTCTAGTGA TAGTAAAGGT TCCAGTGGCA AACACACAAG TGAAAAGTTT 120
GAATATAGTT TCATAATGTT TGAGAGTGTA AAAAATGCAT TTTTAAATTA ATACATTACT 180
TTCTGTACTA TTTTAAATAA GTGTGTATCT AAATAAACAC ATAANATGTT ATGAGTAAA 239

SEQ ID NO:4610

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05467

SEQUENCE DESCRIPTION:

GATCATCCTG GCTGGGAGAA GTGGGACCGA GCCACCCAGC TNCACATCC CCAAGCNGCG 60
CTACAGCCGG GATGGGAGGC ACGTGGCCTC TCTTTTATCC GTCTATTTAT NTTGTAAGTG 120
TATTCGTGTG GAGGAGGTTG TTGCTTTATT TTTTAAAGGC TCTGGAGTNT TGTGTATGGT 180
TTCTTTTCAC ATCNGGGCCT CCCATGGGCA CTTCTAAGAA GAGAGGGGAT TTCTTTGAAA 240
AGGAGAGAGG AATCCCCTAG AGCAGGGGAA GCANTGCCTG CCAGCTNTTG TGCACCTTNC 300
GGGNGAANTT AAATATNCNN NAAATTTTCA AACCAGNGAA AANN 344

SEQ ID NO:4611

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05468

SEQUENCE DESCRIPTION:

GATCTCTCTC TCTCTCTCCC TTTCCTCTCT CTCTGTTGGA TGCTTCTGTA TCTTTTCCA 60
CAGCATAATG TCTGGTGTGA TGGGGAGCTA TTTATTGAAA TNAAAGATTA TNTATTTGTG 120
CCATGAAA 128

SEQ ID NO:4612

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05469

SEQUENCE DESCRIPTION:

GATCCATTTT TGGGATAGAA TTGTATTTTT TAAGTCATTT TTTTCTTCTG AAATGGATAT 60
GTACAAATAA AATAAATGGA AGACAGGATA AA 92

SEQ ID NO:4613

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05470

SEQUENCE DESCRIPTION:

GATCCAACAC ATTCANGTCA GTAGAANCAA ACCAAAACAT GCAAGCTTCA GCCTGNTCGA 60
GTTCTATAGT TGTACCTAA ATCGTATGTT GTATGATACA TANGGTTATG TATTAGCNCG 120
TAGCCGNGGN 130

SEQ ID NO:4614

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05471

SEQUENCE DESCRIPTION:

GATCACAGCT NCCCTTGAAT CTCATTGCCT CAGAGAAGAC TAGAGGGCTC TTGGACTATC 60
CCTAGGGCTA CACAAGAATA GTTCAGCCTT CTGCCATGCC ACACAGCCTC AGCTTGAATC 120
TGGTTCATTG CGTCCTCGTG TTCTTCTCTC ATCCTTGCCT TANACCAGGG ATTCTGATAC 180
CGAAGAAGAG GGGCCAATGA AAACCATGGA GTCTGTTCGT GACTCCCAGG GCTGGGACAT 240
TATGTAGGAG CCACTTCATA AACATTCTCT TTACTCAA 279

SEQ ID NO:4615

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05472

SEQUENCE DESCRIPTION:

GATCAGTCAT GTGTCCGTAA CCTCGTTCCA TGACATCAGG ATAGCTGTGT TTGCACACCA 60
TGCTCCATGT NCATTGCGAG CCAGGAGGGG TTCTNAGTGG AGCCTGGCTT AGGGAACAGG 120
GAGCGATGGA AGAATGCCAA CATTAGCGTT GGTCTTCTCT TGTNAGGAAT NAAGGATGCT 180
TGCACACATG CACCCCTCA CTCTCACACT TGCACACATA CACACACACA CACACGAANA 240
TGGTTGGTTT GTCAAANCTC ACTGTAGTAC ATAAAGNTTG CACTCTGNGT NNNNATATCT 300
AGCNGNATGG GGGGTACGNT TTGGGCNGGT GTN 333

SEQ ID NO:4616

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05474

SEQUENCE DESCRIPTION:

GATCTCTTCC CACCTACCCT ACCTACTCCT ACCCAANACC CCCCTTCCCC ATTAATGTGA 60
GTAATGAATT AGCCTGACCA CAGGTGGTCA CTGTAGGCTA ATGGAAAATA CCAAGGGNG 120
GGCAAAGCCC CCCATCAGAT GCATGAAGGT TTGCNAATGT TGA CTGCCCAC TGCCCCACAC 180
ACTGTGTCTT TATAGANTTN CCCTTTGCCN CACCCTCTTC CTGTNTCCAA CCTGGGACAC 240
ANCTTNGCTC AAAGNGCTGG TGGNTTGTGG GGCATTAATC TACAACCANA GTCCTGAATG 300
GAGGCAAAGA GGGCCCCACN GGNTTTGNGG GGNTN 335

SEQ ID NO:4617

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05475

SEQUENCE DESCRIPTION:

GATCCATTCA CATTGCAAAC TTATCCTACT GTATAGCCAT CCATTGTAAG AATACATTTT 60

TCNATTTATA TTGTGTACAT TACTCCAGTG AACATTCTNN ANCTCCTCTT TTNGTATCCT 120

GTGCAAGANT N 131

SEQ ID NO:4618

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05476

SEQUENCE DESCRIPTION:

GATCTCAGCT ACGTGGGAGG CTGAGGCAGG AGAATCTCTT GAACCTAGGA GGCAGAGGTT 60

GCAGTGAGCC AAGATTGTNC CAGCCTGGGC GACAGGGTGA GGCTCTTGTC TCAAAAAAAAA 120

AAGTCCACAT CTTCATGANC CCTCAGACTC TGGAGTTGGG TGTCGGCTTT TTTAGCCAGN 180

TTTTGTGGGA ATTGCCTTN NCCTATTAAA GANGGAANGT GGGTAATGGA GTCCCAGCCA 240

CTCANGAGNC TGGNTATCCC CCGAGANTGG CTTGGGTAC CAGCTATGGA CCCTTGGAAG 300

ATGANTCTAN ATCCTTCTCA CNN 323

SEQ ID NO:4619

LENGTH:346

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05477

SEQUENCE DESCRIPTION:

GATCACCTCT CTGTATCCCC CACCCACTAT CCCATTNCC CTCCTCCTCA GCTAGGGCCA 60

CGCGGCCCCA CATTGCACTT CTGGGGGGTG ACCGACTTCG TACACGGGT TAAAGTTTAT 120

TTTNATGGTT TAGTCATTGC AGAGTTCTTA TTTTGGGGGG AGGGAAAGGG GGCTAGTCCC 180

CTTCTTTTGG CCCTCCGCCC CCGCAGGCTT CTGTGTGCTG CTAAGTGTAT TTATTGTNAT 240

GCCTTGGTCA GGGCCCCTCT ACCCACTTCT CCCAGTAAGT TGTGGCCCCA AGCCCNATC 300

CNTGTGCTGT GTGGAGTGGN CAACCTGACC CCCGNAAGNG GGNNAN 346

SEQ ID NO:4620

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05478

SEQUENCE DESCRIPTION:

GATCTTTTTA AGGATAGACG TGGTCTCATG CTTCTTTTGT NCGACTCCGT TTAAAGGAG 60

CATTGTAACC ACTATCCTCA TCCCTACAAA AATCCAGTGG ATGCACTTCC AAATTACTTC 120

TGTCATTTTG TATGTGTTGT GTTTAGGGNT GCGTAATTTT CACTGGATGN TGAGATACAT 180
 GGTGATACTA TGTCAGTTTA TTCTCTGTGA ATATGTCTGT ACATAGNCAG GAAGCTCTAC 240
 TTATTTGTNC ATAGGCTGTC TGANGTATGT ACTTCTGTCA CATGGNCTTC ATTCTGATAA 300
 AGGGTGTTTC TCCCTTGNTT CACTGTCCAT ACCTTTGTGN NGN 343

SEQ ID NO:4621

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05479

SEQUENCE DESCRIPTION:

GATCCTTCTG TGCTTGCTTG CATCTTTAAT AAAGACATGT TCCCGGCAAA 50

SEQ ID NO:4622

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05480

SEQUENCE DESCRIPTION:

GATCCAGCTA GGCTGGGACA CTCCCTAAAT CAGCTGCGTG TTGTTAGCAT CAGGCAGAAT 60
 GAATGGCAGA GAGTGATTCT GTCTTCATAG AGGGTGGGGT ACTTCTCCAT AAGGCATCTC 120
 AGTCAAATCC CCATCACTGT CATAAATNCA GNGGNAATNG NCTGNACAAA 170

SEQ ID NO:4623

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05481

SEQUENCE DESCRIPTION:

GATCCTCTCT GTGTAAATCC TGCCCGGTGC TGTNAAGGCT GGACGGTGGA GGACCTGCTG 60
 GGGTCTCCTG GNACCCGCCT GTTGCTTCTN CCCTCCCTG TGGAAAGGTC TATATNACGG 120
 GCTGCCTGAG GCCCCAGAAC TCGTCTGTAA ACCACCTTTT CCAGCCAGAG TTCCCAAAGC 180
 TGGAACGCTA GCTGCCTGCT CTCCTTAAG NTGGCCTCCC CCNGACCCGT CANGGTCTC 240
 AGTTGCCAGG GCTGGGGCCA NCCACTGTNA CACTGNGGNN TGCANGANAN 290

SEQ ID NO:4624

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05482

SEQUENCE DESCRIPTION:

GATCCAGCTT CAGCTGCACA CCTCTGTCCC CTTGGATGGG GAACTAAGGG AAAACGTCTG 60
 TTGTATCACT GAAGTTTTTT GTTTTGT TATAACGTGT CTGANTAAAA ATNCCCACNG 120
 TTAAA 125

SEQ ID NO:4625

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05483

SEQUENCE DESCRIPTION:

GATCCTGACC CCAGCCAACA GCTGAGCTGC CGGGCCTCCT CGAGGCCCTA AGCCAGCCCC 60
AGAGGTCCCA TCTNAAGCTG GAGTACCCTG GGGTCAGCAG CAAGAGAAAG AAGNGGAGAT 120
TTTNTGTTT TTTTCCCT CAGCCCTGCC ACCGTGGGGA GTCTGGTTTT TNTCTTCATC 180
CTGTCTCTCT CCTCCTTACT CTTGGATAAA TAAACAGCCT GTGAGCACAC AGGCAAGCCC 240
GGCCCAAGTGA AA 252

SEQ ID NO:4626

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05484

SEQUENCE DESCRIPTION:

GATCGTNACA AATCTNCCCT CCTCACCAGC TAGTCTGGGG TTTCCTCTCC CTGCCCCAGG 60
CCAGAACTGC CTTCTTCATT TCCACCCAGC CTCCCAGCCT CTTAGCTGAA AGCACAAATG 120
GTGAAATCAG TAGTCTCGNT CCATCTNNA TAGACTAAAC CTAAATGCCT CTAGGACGGA 180
CTGTTGCTAT CCAAGNGTTT GGTGTTACCT TCTCCTGGGA GGTCTGCTG CAAACTCAAG 240
TTCCNCAGGA TGGTCAAGNT GTCANGANAT ACAAGTTTNC ATCAATTGTA ATTATTACCT 300
GGTCTTTNCA ANTTTGCAAN GNGGTTTGG GNTN 334

SEQ ID NO:4627

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05485

SEQUENCE DESCRIPTION:

GATCTTCCAT CAGGGCCGGA GTAAATCCCT AAGTGNCTCA ACTGCCCTCT CCCTGGCAGC 60
CATCTTGTCC CCTCTATTCC TCTAGGGAGC ACTGTGCCCA CTCTTTCTGG GTTTTCCANG 120
GGANTGGGCT TNCAAGGTNG GNGTNTCTGT AAAATCAACA GGTAATAAAA ACTGTGTATG 180
AGNCCNGGCA AA 192

SEQ ID NO:4628

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05486

SEQUENCE DESCRIPTION:

GATCTACAAT NAGATATCAC TTAACACTCA CTGGAATAGA TATATAATCA AAGTGATAAT 60
ATCAAGTGTT GNGAGGATG CAGAGAAATT GGNACCCTCA TGCACTGTTG GTGGATACCC 120
ACGTGATATN AAAACAAATG TCTACACAAA AACTTGTGCA CAGATGTTCT TTGCAGCATT 180

ATTTATAATA GCCCAAAATT GANACAGCCC TANTTTCTAT CAACTNACAG GTGAATAATC 240
ANAACGTGGC ATATCCATNC ATGGNGTATT ATTCAGCATT ANANNATGGG ATGAAGTACT 300
GGTATGCACC ACTCN 315

SEQ ID NO:4629

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05488

SEQUENCE DESCRIPTION:

GATCTGAAAT NATGGTTCAA AAAATACATT CATAATAAAA GTCTTAACAA A 51

SEQ ID NO:4630

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05490

SEQUENCE DESCRIPTION:

GATCAATGCC CNTNTNTCAG TCTCATCTGT ACTCACGGCA GCCCTGTGGA GTACGGTGTA 60
CTGGCCCAGC TTACAGATGC AGAAAGCGAG ACGTTCTGCC ATNAGATAAA GTCACGTGGC 120
TCTTTAGTAN CACGGACAAG GCTCCTCGCC AAGGAACTCG TGGCAGAAGA GGGCAGCAGT 180
TGGCAGTAGC TGCCGATGTC TGTCCCCAGC TNCACCATTC CTCCTGTGG CTGTGCCATG 240
CTCGTGGTTT CAGTNTCCGT GTGTNCATGT GNCTNCCCTT NAAGAGCTCG CANCTGGTGT 300
GCTTNGGGGG TCCCAGGGCT GTGTAGNGTN TTCTNCN 337

SEQ ID NO:4631

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05491

SEQUENCE DESCRIPTION:

GATCTGTCTA TTTCGTTCAT CCATAGTTGC CTNACTCCCC GTCGTGTAGA TAACTACGAT 60
ACGGGAGGGC TTACCATTTC TTCCCTGAAA 90

SEQ ID NO:4632

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05492

SEQUENCE DESCRIPTION:

GATCAAAGGC TCTTTCCTCT TTTGTTTGAG AGTTGGTTGT TTAAAGCTT AATGTATGTT 60
TCTATTTNAA AATAAATTTT TCTGGCTGTG GCAGAAA 97

SEQ ID NO:4633

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05493

SEQUENCE DESCRIPTION:

GATCATCGTA TGCAACAGCT GGGTAATAAG ACTGGCATAG CTCAAACATAT CCTGCCAAAC 60
GCTCTCATCT GATTTTTCCT CCCTTCTCCC CCAACCTCCA ATCACCTGA GTCACCTGTA 120
AATTCATTG TCATTCAAAG CGGAATAACA AGTTGTCCCT AGCAAAACCG CTGAGCGCTT 180
TATAATTTG TGGTGTATTT TTGTCAGTAG GTAGCAGAGG CGGAAGTATT TTTGGTGTA 240
ATTCTTGAAA TTTTCTGACA GGAAACCGGN TAAAGATAGA TGTGTCTGAG GNTAAAAAAN 300
GTTNGGNNG NNNTGNTTTN 320

SEQ ID NO:4634

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05494

SEQUENCE DESCRIPTION:

GATCTATGAA ATAGGTAACA TTTGAGTAGG TGTCATTTAA ANATAGTTGG TGAATGTCAC 60
NTATGCCTTC TATGTTGTTT GCTCTGTAGA CATGAAAATA AACAATATCT CTCGATGATA 120
ATTTGTATTA AGTAATCTAT AAGAAA 146

SEQ ID NO:4635

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05495

SEQUENCE DESCRIPTION:

GATCTATCCA GCTGCTTCCT TGTAGCCAAG AATGTGTTCA ATGAATTGTG ATTCACTGAT 60
TTTATTGATT TTGTTTTAAA ACAGGGAGAC TGGTATTTTT GAAGCTGCTA TCATTTTCTA 120
TTTCTNTATT AATNNCTTTG TAATCATCTT ATTAAAGTTT TCTTATTTAG TGGGAAA 177

SEQ ID NO:4636

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05496

SEQUENCE DESCRIPTION:

GATCCTCTCC TTGTATGTAA TACCTTTTTT TCCCCTTTCT AGCAAGTACT TTCAAAGAA 60
CTCTGTACAT TTAAACATAA AAAATAAATT ATGTTGAGCC AAA 103

SEQ ID NO:4637

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05497

SEQUENCE DESCRIPTION:

GATCCATTTG TAACTACTCT TAATATATGG TACATAGTTT AAAAAATTTN ATTGAGCTTA 60
AAGTGATCT AGTTTGTGT CCTAATTATC CTGCTTAACC TTCTATTGTA AGGNTTTNCC 120
ACGTCAATAA ATATTATAAT GTAAA 145

SEQ ID NO:4638

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05498

SEQUENCE DESCRIPTION:

GATCANCAAA CTCAACACCA TCTTGCAGGA GCAACGGGNT GGCCTTTAAC ATTGCTGAGG 60
CTTTCAAAGA TGTGTCAGAA CCCATTGTAT TTCTGCAACA GATGCAGGAG TTTAGAGAGA 120
AAATCAAAGT AATCAAGGAA ACTCCTTTAC CTCCTCTAA TTTGCCTGCA AGCCCTTTAA 180
TGAAGAACTT TGATACCAGT CAGTGGGAAG ACATAAACT AGTCGGTGTG GATAAACTTT 240
CTTTGCCTCA AGACACTGGC ACATTCATTN GCAAGGNTN 279

SEQ ID NO:4639

LENGTH:242

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05502

SEQUENCE DESCRIPTION:

GATCAGAGCA AAGAGAAAAG AAAGCATAAG GACTTACT CAACAGAAGC ACCTTTAGGC 60
GAAGGAACAG AACAATATGT CAATAGTATC TCAGATTGAC CATTCTGTGTT ACTTGTCATT 120
TCTACTTTCA GAACTAAAT GACTTTCAAA TTTGGGTATA GACAATAAAG AACTGAAGTG 180
CTCACTACTC AGTGATTTGG AAATTTTGAT GCTTGTATAA ATGTCAGATA ATTAATTCN 240
AN 242

SEQ ID NO:4640

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05503

SEQUENCE DESCRIPTION:

GATCTTGTTA GACACATGAA TGTGTATAAT CATGTTAAAT GCAAATAAAA CTAGTTCATA 60
GAAA 64

SEQ ID NO:4641

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05504

SEQUENCE DESCRIPTION:

GATCATNAAG GTAAGGACTG GAGTNATGCA GCCACAAACC AAGGAATATC AGTAGCCATA 60

AA

62

SEQ ID NO:4642

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05505

SEQUENCE DESCRIPTION:

GATCAGTNCT AACCTGAGC TGGCGGCTAT CTTTGAAAGT ATCCNGAAAG ATTCATCATC 60
TACTAACTTG GAATCAATGG AACTAGTTA GATGTTTGT CACCATGGGG ACCATTACAT 120
ATGACCATAC AATGCACTGA ATTGACAGGT TAATCATAAG ACATGGAAAG AGAAGTGTCT 180
AAAAGCTTCA AAATGTTCCA CTTTTTTTTT CCTTCATGGN GACTGTTTGT TTGGCTTTCT 240
TCCATTGTNG TTTTGTAGC ATTTATTTC GAAATGTGTA TTTCCATAAT CCAGAGGTTG 300
TAAACCACT AGTGTTTGTAG TGGGTTACAG CANCEATTN 339

SEQ ID NO:4643

LENGTH:70

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05506

SEQUENCE DESCRIPTION:

GATCTTCCTC CTTATTTTAA TGCTTCTTTC TCTTTACAAT TAAAAGTTCA TAAAATCTTT 60
CAACATTAAA 70

SEQ ID NO:4644

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05507

SEQUENCE DESCRIPTION:

GATCAGCCCT AATNATGCTG TGTCCATGAT GCTTTTAATA AAAACAACCC CCACAAA 57

SEQ ID NO:4645

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05508

SEQUENCE DESCRIPTION:

GATCTCTATG CCCAATATGC TGCCTCAACT CTGAGCTGTC TGCAAGGCTT AGTAAGTATT 60
GAGTGGTGTT TTTTTTTTTC NTTTTATACA ATACCATNTT AACCACATGA GTTAAATAAA 120
TTTGAGAAGT TTTTTTAAAA CAGTGCTTCA AACTGAAA 158

SEQ ID NO:4646

LENGTH:153

TYPE:nucleic acid

01439

TOPOLOGY:linear

CLONE:HUMGS05509

SEQUENCE DESCRIPTION:

GATCCCCGGG TACNANTNAN CCATGCAGGC ATGTTTTTTT TNATTTTGC ATAGGCAATC 60
CATTCTGTAC AGGTAGCTAA CTTTGTAAC GCTGTGTATT CCCTCTGCCC CCATGGCTGC 120
TGGTGTAAT AAACATGCATC TCCCGTTGGT AAA 153

SEQ ID NO:4647

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05510

SEQUENCE DESCRIPTION:

GATCCAGAAG TCATTAAGG AAACATAAGG CTGGGGAGGC AGGGGGAGTA AGTTCTATTA 60
GAAAATCCTA ANAGCTTAAC AAAACTAGGG TACTAAATTC AGTTATAACA TGTTACAGAC 120
TTAAATCATA GAGCTGCCCC AACATCTAGA CAGTCTCTCC TACTGATTAT AAATGAGTGA 180
AAACTATCAG TTAGAAAAAT CTAATTTAAG TTGTTAATAC ATGTTTCTTT GGTGAGCACC 240
TGGATATANT TATCACAAAT NCTTTTATAC ATATGTCGAA AATGCTTTCA ACAAACCTAA 300
GTGTCCTAAT TACATGCCAC TTTTTNAGG CTCACCTTAT GN 342

SEQ ID NO:4648

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05511

SEQUENCE DESCRIPTION:

GATCGCTACG GTTCTAAATA CTGAAGTCAT GATGTGTATT TCCNGGAGAA ATTCCTCTTT 60
AAATGAACAA GTAACCACAT CTCAGGCGGC AGTGAAGTCC AGATAGTTTT GCAGATTGTT 120
TTGCTACTTN TNCATATGGT ATATGTTTCT GNTTTTAAAT ATTNCTNTTG AGAAATTCTG 180
AGTNCTGATG TAGGAGCTTT CCTGTNATNN CTGTTTCACG TTCCTTCCTG TCACACCCTC 240
CTGTGGCGT CTCTGTGTAT ATCCTNGGCT TTATTTTCTN GGANCCTTGN GATTTCACAA 300
CTGNGGGCCT GGAGACCTCG GTCCTNCTG GTN 333

SEQ ID NO:4649

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05513

SEQUENCE DESCRIPTION:

GATCATGAGA AATTACCAA ATGTCCACCA ATAGAATGAG TGAATCACCT GTGGTATATT 60
TATAAATAAA AATATTAANT AGAAGGTAAC ACAAATCAGA CATAACACA TTAGATAGAT 120
AAATTTAGAG GAAAAAATAA AAACCATGCA AGNTTCAGCT NCNCGNGTNC TNTGGTGCA 180
CCTAANN 187

SEQ ID NO:4650

01440

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05514

SEQUENCE DESCRIPTION:

GATCGAGGGG GTATGCGTGG GGGAGTTGTG AGTGAGCTCA GCTCCTTTCA GGCCTGGCCT 60
CTCCCAGAAC AGAGTGAAGC CCCTGCCCTG GACCCCTGCT CCCTTCTACC CTTGAGGGCC 120
ACCAATGGAA GAGCCCGCCC TTCATTCTGC AGCTCCTGCG GCCAGGCTGA GCTCTGCCCC 180
CAACTTTGTT TTCTCTCATG TTCTCAATAC ACTCTGCCTC AAATCAAA 228

SEQ ID NO:4651

LENGTH:300

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05515

SEQUENCE DESCRIPTION:

GATCTGTAGT TAAGGGAACC AAGGGGTCAT TGGGGCAAAA GCATTGTTTC TCAAAGCTCC 60
TTGATTAAGA GAAAGAACAG AAATTTGCAC AGAAGATAGT GTCAAGGAGT GAGAAAGTTT 120
GTTTGAGGGC AGTAGCTCAG TGTGGAAGAA AATCCTGAAG TTTCTGTTGA AGCCATACAA 180
TGTTCTATGG GGTTACTCTC TAAGACATTC TCTGAGGTGT GTGAGGAAGT CACTACTCCT 240
AGCCTTTGTT AAGATGTAAT TTAAATATT CAGTTATGGT ACTATGTTTG CAACTCTCTN 300

SEQ ID NO:4652

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05516

SEQUENCE DESCRIPTION:

GATCAGTTTA TATTGCTCTT AAATGATAAT CCTCAGCTTC CAAGTTTTTG TGAACCTACT 60
TTGGTTTATG TGTTTGCTAC ACTCACTGAG AAATTAAACA CCTTGCTTGA TTTATTGTAA 120
AAAGGAAAAA ACAACAGAGC CATACTTAAG CAAA 154

SEQ ID NO:4653

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05518

SEQUENCE DESCRIPTION:

GATCTTTATG CTGTTATNAC AGGAGAAGTG ACATACTTTA TATATGTTTA TATTAGCAAG 60
GTCTGTTTTT ANTACNATAT ACTTTATATT TCTATACATN TATATTNCTA ATAATACAGN 120
TATCACTGAT ATATGTAGAC ACTTTTAGAA TTTATTAAAT CCTTGACCTT GNGCATTATA 180
GCATTCCATT AGCAAGAGTT GTACCCCCNC CCCAGTCTTC GNCTNCCTCG GGNTTAAGCT 240
GTTTTATGNN 250

SEQ ID NO:4654

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05519

SEQUENCE DESCRIPTION:

GATCCCCACC CCAATTCAAT CCCGGAAGGG ACTTACTTAG GAAACCCTTC TTTACTAGAT 60
ATCCTGGCCC CCTGGGCTTG TNAACACCTC CTAGCCACAT CACTACAGTA CAGTGAGTGA 120
CCCCAGCCTC CTGCCTACCC CAAGATGCCC CTCCCCACCC TGACCGTGCT AACTGTGTGT 180
ACATATATAT TCTACATATA TGTATATTAA AACTGCACTG CCATGTCTGC CCTTTTAAA 240

SEQ ID NO:4655

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05520

SEQUENCE DESCRIPTION:

GATCCAAATA GTCAGAAAGA AAGGAAGGAA GTGCTGGTAA GAAGGAAGGG AGGAGCGTAT 60
CCTAAAGAAC TACTCCCAAC TATACAACTG TTGTTTTCTT CCCAATTTTC CTAGGGATTTC 120
CTCATAATTA TCTCCTTTCT CTTCATAAAT TCTACTTACT GACCTGAAAT AAAATTTCTC 180
ATTTGGTTGT CCTCAAGGTG CAGAATATGG ACTTAAGGCT CCTCCAGACA ATTCAAATGT 240
ATTGTAGACA GTTAAGNTAG AGTAAAACTC ACCGTTTTGT CCCACTGAAA 290

SEQ ID NO:4656

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05521

SEQUENCE DESCRIPTION:

GATCGACAGG CATCCACAGT TGAGTATCTC CCAGGCATGC TACATTCAAA TTGCCCTAAA 60
GGTCTCCTAC CCAAATTCTC CACGCTGGTC TTNGGTTAAA CTAGGCCCTG CTAAGTCTTA 120
TAACTTTCAT ACAGGTTTGG ACCAACAGGG CTTTATTCCA GGANCAAATT ATCTTATGCC 180
TTGGGACATT GNCATCAGGA CTAGAGCTGN AGATGAAGGA GACTTAGACA CAAACTCTTG 240
GCCTGCTCCA AATAAAGCTA TTCCTNGNAA GAGNAGTGCG GTTGTAATGG NTAAGAGNGN 300
AGANCGGCGA GATGACATTG NTCGAGCTTN TNNTGGNCTT TGAATATNGA AGTCN 355

SEQ ID NO:4657

LENGTH:382

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05522

SEQUENCE DESCRIPTION:

GATCCGCAAA CGATTAATTC TGTCAGACAA AGGGCAGCTG GATTGGAAGA AGATGTATTT 60
CAAACCTGTC CGATGTTACC CAAGGAAAGA GCAGTATGGA GATACCCTTC AGCTCTGCAA 120
ACACTGTCAC ATCCTTTCTT GGAAGGGCAC TGACCATCCG TGCACTGCCA ATAACCCAGA 180
GAGCTGCTCC GTTTCACCTT CACCCNNGGN CTTTATCAAC TTGTTCAAGT TCTGGNATCC 240

CAGCACATGA CAACACTTCA GAAGGGTCCC CCTGCTGACT NGAGAGCTNG GGAATATGGC 300
ATTTGGACAC TTCATTTGTT AAATTAGTGT ACATTTTAA ACATTGGGTT CGGNNAACTT 360
TCAGNGGTNA GGTCCGNGNN TN 382

SEQ ID NO:4658

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05523

SEQUENCE DESCRIPTION:

GATCATTAAA AACTTAAAT ATATTTTATT AGAAAACATT TATCTATGAA TGAATATTTT 60
CTTGATGCTG GTCTCTGCAC ACATATGCTT GGTTACTTGC ATGCATTCAT TGGTTGTTCA 120
ATAAGTGAGA TGATTACAGA TAACTTAATA CTGTATTTNC CTTATATGGA AAACCGTTAT 180
AGACCCAATA ACAACTAANC CTTTCAAAAG AAANTATTTN CTATTATGAN TGTGATTTT 240
CATACCNAAG AAGATGGAGA GTCTAAAATT TGGGNTATGG ATNCTNGATG GNNTTTTAN 300
TNGGNAAGCC TTCTTCAAG TTTNAN 326

SEQ ID NO:4659

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05524

SEQUENCE DESCRIPTION:

GATCAGCTTT GCAGTAGATT ATGCTGCATC CTCGTGGCAA AATTCTGTAT TCTTAGTGAT 60
TGTTACAAAC CCCTTTATTG CTGTCTGAGA AAGTGAAAGA TTGTGTATTT CTATTAAAC 120
ATTTACAATC AAA 133

SEQ ID NO:4660

LENGTH:264

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05525

SEQUENCE DESCRIPTION:

GATCAACATC CGGAGATGGA TTTNCCAAG GCTAAATTCA ACTAGCCCCT GTTTTTTCCT 60
CCCTGAACTC TTGGGGCTGA GCTGCAACCA CCCAACTTTC TTTCCCACTC TTCTCTGGGA 120
CTTGTTGGGCC TCAGGGCTTG GGGCAGGCAT GGGACTGGCC CAGGCACACA GGTCCTGGGG 180
CATCAGGAGA AAGGCTGGGT CTTGGGACCT TGTCTCCCC AGTTGGCCTA CTGTTACACA 240
TAAAACGAT TTGCCAGNT CAAA 264

SEQ ID NO:4661

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05526

SEQUENCE DESCRIPTION:

01443

GATCACCTNT TCCCTTCAAT CCTTGTGGCT TCTGGGAATC TTCAGAGCCT GGGTCTGAAA 60
 GGTGTTTCCT ACATGTCTCA GGGCTGGATG CAAACCTGGC TGGGGACCTG AGCATCAACT 120
 CCCATTTAGA ATCAGACATC TCCCTTCCCT GCAAATTGTC TACAACTACC AAATTGCTCC 180
 AGGTTTGAGA TGGTATTGCT AAATTAAAAA TTAAACAAGN GACCCANCAN CAGCTTTTTA 240
 AAGTGCTCNC TATTTCATNN GTATTTTNTT NAACCTTGGC CCCANTTGNT AGAAAAGTCT 300
 TTTGCNGAAA TGNATTTNN 319

SEQ ID NO:4662

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05528

SEQUENCE DESCRIPTION:

GATCAAAACA GTGTGGTGCT GGCAAAACAA GAGACATAAN TCAGNAGAAG AAAGAGTCCA 60
 GAATTAGACC CACACACATA TGGACAATTG ATTTTTCAT AAGGGCACCA AAGCCATTCA 120
 ATGTATAATA GAGAAGACAG TTTTTTTC AAACAGTAT TGGANCAGTT GNCCNNNTAC 180
 AAAAAGTAAA CTTCANCCCA TACCTCACAC TATATCTAAA ANTTAGCATC AAATGGNTN 239

SEQ ID NO:4663

LENGTH:68

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05529

SEQUENCE DESCRIPTION:

GATCTATTTA GTCCTACAAA TCAGGAGTGG TGTAGAGACA TCCAAATTTA AAGAAAAAAA 60
 AACACAAA 68

SEQ ID NO:4664

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05531

SEQUENCE DESCRIPTION:

GATCGAGTTT TAAATTGATA GGAGGGAACA TGTCTAATT CTNCTGTCCT GAGAAGCATG 60
 TAATGTAAAT GTTATATCAT ATGTATATAT ATATNTNCNC TATGTATATA CATATATNTN 120
 AN 122

SEQ ID NO:4665

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05532

SEQUENCE DESCRIPTION:

GATCAGGGAC GGGGCTGAGC TGGAGAGTGT GCAGGATTGA TTAATGATGT CTGCCACGGT 60
 CAGGCCAACT GCTGTGTTTC TGGGGCCCAC AAGCTAAAAA TGGTTGAAA AAAATCAAAA 120

CATTAATATT TGTGACATAT GAGAATGCTA TGAAAGTCAA CTTTGCTATC CATAAATAAA 180
GTTTTATTGA CATAAA 196

SEQ ID NO:4666

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05533

SEQUENCE DESCRIPTION:

GATCAGATTG CTCAACTCCA TTATAATTTG TTTCCAACT AATCTGTTCA GGCAAGATAA 60
AGATATAAAT GTGGATTGTT GCTGAGGTTA AGTCTGGTCA GATTTTNCCA NTTATGCTTG 120
AAAAGTAACC ATATTTCAAT CAAATATATA ATATGTATAT NTCATAATAA TATANGCAAT 180
ATTAGTCTCA TTATTAATTC AAAANTCTCA TCTATATTTT ANCACTGTAG AACATTATTA 240
NNTGANTAAN TGACCTATAA NTATTTGGTG CCTGANGAAG TCACTTTGCT ATTANTNATA 300
CGGTGTAGNG TGTGGN 316

SEQ ID NO:4667

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05534

SEQUENCE DESCRIPTION:

GATCTCAGGG AAGCCTGGGA GTCCCTTCTC ACCCCTCAAC CTCCGGAGTC CAGGAGAACC 60
CGTACCCCCA CAGAGCCTTA AGCAACTACT TCTGTGAAGT ATTTTTTGAC TGTTTCATGG 120
AAAACAAGCC TTGGAAATAA ATCTCTATTA AACCGCTTG TAACCAAA 168

SEQ ID NO:4668

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05535

SEQUENCE DESCRIPTION:

GATCATCCCA TCCTTGACCA CAGGGACAAG AGGGGCCCCC TCGCCCCAGC CCCACCCAC 60
ATGGAGCTCA GGGGGAAGCA GGGAGGGGTT CCCAAAAGAG CCCTGCGGAG GCTAGGAGTG 120
GTTCTTGATG CTCACCTGAA GCCCCTAGAC GCTGCTAGGA GGGGGGGCCC TCCTGGGCCC 180
NAAATACCCN TCCGCTTGCC GCTGCTAGCG NACCCCTGCA GTCCAGCGTG CATCCACCCC 240
ACGNACGTCC CGTGCTGTGT TCCTGGGCCN TGTCCATGGC CTNAATAAAC TCTCTGCTTG 300
GGTGTGACAA A 311

SEQ ID NO:4669

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05536

SEQUENCE DESCRIPTION:

01445

GATCGCAAGC TGTGATGCA CAGGCGTCTT GTTGGCAAGC CCAGCTTCAG TTTATGTTAG 60
ACAATCAGTA CACATGCTGG TGTGTTTTCC AATGGCCAGT NATAAGAAAT TAAATAAGTA 120
TTTGTGAGAT TTGCTATTTT TTAATAAAGT AATTNTTTTA AATTAAA 167

SEQ ID NO:4670

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05538

SEQUENCE DESCRIPTION:

GATCTCATAC TTGTATAGAG TAATAACAAC AGTTGTACTT CCACCAAAGG CATGTGGCAT 60
ATTACCAAT GTCATGTATT CTGAACAAAG GCAAAAAATA CAAATTCCTA CCATTAAA 118

SEQ ID NO:4671

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05539

SEQUENCE DESCRIPTION:

GATCCTTCAA ATAGGCCCTG AGATGTGAGG TCTGCTGCTT CACTGGGGCC CGATGACTTT 60
GGCTGGGGGA GGGGGCCTAG GGCTCTNCTC ATTGAAAGCT CTGCTTTATA CAGACCCAAG 120
CATACACACC AGGCCGTCAC TTTGGGTTCT GGCATAAGTT CAGAACAATT CAAGTCCATG 180
TGTCCCATGG CTGGTCAGAG CCCTGGGTCA AAACCACTCA GCCCAGGGGA GGGGATGAGG 240
CATTGTCACC CTAGACCCCT CTCCTCTCT CCCNACCAT AGTGTGCAAT AAAGTGTCTG 300
TTCTTACCAA A 311

SEQ ID NO:4672

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05540

SEQUENCE DESCRIPTION:

GATCTTGTCAGAGTCACCTCTCTGTGAACTGGCCATTCCTTTCGGTGC TGCTGTCCTT 60
TTTGGGGGGG TTCCTGATTTCTGTATACATGTAGCTTTGC CAGATATGTA CTTAGTAATA 120
TAAACTGTATTAATAAAATCATTACTGTGTAATACACAGTTTAAAAA TTAAGAGCGA 180
TTAGCTGTTCACTTTGGTAA CAGGTAGTTAAGTGTCACACAAGGTGTTGT TGCAATGGCA 240
TGACGGTGACCTGTTGGNGGNACTAAGCCTTACAGCAAGGCATGTGCCGNACGTGCTCCG 300
TGGTACTTAGAGCCCTGGGGGCCCCGNTCGGACTCCGN 338

SEQ ID NO:4673

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05541

SEQUENCE DESCRIPTION:

GATCTGTTTA CAAGGTTTGT AGATACTTTT TTTGTTCTG TTCATAGATG GGAAGCTTCC 60
TTATAACTGA TGCAGAGAAA AATTAGTCCT TCAAATACTG CTGTATTTTC AGGAAAN 117

SEQ ID NO:4674

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05544

SEQUENCE DESCRIPTION:

GATCAGTGTT GCTAGTAGCT TGGCAGCTCT TCATAAAAGC ATATTGGGTT GGNAAGGTGT 60
NTGCNTATTT TTCAAATNAT TTAATAGATG TNTGGTACCA TTTAAAAGTG GTTGTGTCTG 120
AATTACTGT GGGGATAACA TACTGTAA TGGGGAAAAA TTACCTAAAA CCAATTTCAA 180
AANGGCTTTC TNTGTATTTT AGTTTAAAAA CCCAGTGCAT GATNCGCCCT CTGGAGATGC 240
AATAAACNCC TTNGTGCCAA AGGNGATTGC CNGNGGAGN 279

SEQ ID NO:4675

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05545

SEQUENCE DESCRIPTION:

GATCTGTAAT AAAATAGTAT ACTGGACTGT GCATCAAAGG GATGTAAAT TACAGTATTC 60
CAAAGGTTGA AGTTCTGCTG TTTTGTATA ATGCCTGATA CACATCTTGA ATAAAGTCTT 120
AACATTTTNC TTATAAA 137

SEQ ID NO:4676

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05547

SEQUENCE DESCRIPTION:

GATCATAAAA ATTAAATGT GAATGTCAAC AATAAAAAGC AAGACTATGA AAGGCTCAGA 60
TTTCTTGCAG TTTAAATGG TGTCTGAGGT TGTNCTATTT TGGCCAAGTC TGTAAGAAAGC 120
TGTCATTTGA TTTTNATTAT GTAGTTCATC CAGCCCTTGG GCATTGTTAT ACACCAGTAA 180
AGAAGGCTGT ACTCAAGAGG AGGAGCTGAC ACATTTCACT TGGCTGCGTC TTAATAAACA 240
TGANTGCAAG CATTGAAA 259

SEQ ID NO:4677

LENGTH:261

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05548

SEQUENCE DESCRIPTION:

GATCATCATG ATGAGTTTGT CCTTATGCCT TGAATCTTNA GGTTAATAGT CATAAAATCC 60
CTGCTTTCTA AATTCGCATT TTTCTGGTG TACCNTTAAT GTGAACNTT TGGCATTCTT 120

CTGCAATNTT CTGATTGGAG ATTGCATTTT GACCTAGTCT GTAAGTTTTT CTGTCAGAAG 180
AGGACTTTCA TCAACTTTCA NGGNAAGATT GTTTATTGGC ATACTGTAAA GTTAAGTNAN 240
GCANTTTNAA AGTNGTCTAA A 261

SEQ ID NO:4678

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05551

SEQUENCE DESCRIPTION:

GATCCGATTT TACCTTGGAC CCCTGCGTCT TGCCCTGGG AACCCANATG GGGACTGCTC 60
TGAACCTTTG GATGACATNT GTGGCCCCGG AGATGTTCTC AACCCAGGGG TGCCCTTCGT 120
AAATGTTNCT CCATCCTCAC TGTACCAGGA GTGTGTGAAT AAACACAGAC CCCCTCTGTG 180
AAA 183

SEQ ID NO:4679

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05552

SEQUENCE DESCRIPTION:

GATCCCAGTG ACGTGGAAGT CATCAGAACC CCACGGTACT TTGAGTACCT CTCTGCACCA 60
AGATAGCTGA CTGNTTTTCT GCTCAGTCAC AATTTTACTT GNAAGCAAGN ATTGTCCTAG 120
NTCCTNTTCC ATTATTCCAA AACGTTTAAAC GTTCAAAGCA GGGTCTCATT AAAANCCCAA 180
CTACTGGTTG ATATAATTGA GATATTACAA TTTCAGAATA AACATTTGAT TAAA 234

SEQ ID NO:4680

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05553

SEQUENCE DESCRIPTION:

GATCAGAATC TTCAAGAATC AGTTAGGTTC CTCCTGCAA GAAATAAAAT GTCAGGCAGT 60
GAATGAATTA TATTTTCAGA AGTAAAGCAA AGAAGCTATA ACATGTTATG TACAGTACAC 120
TCTGAAAAGA AATCTGAAAC AAGTTATTGT AATGATAAAA ATAATGCACA GGCATGGNTA 180
CTTAATATTT NCTANCAGGA NAAGTCATCC CTATTTCTTT GTNTTACTGC ACTTANTATT 240
ATTNGGTTGA ATTTGTNCAG TATAAGCTCG TNCTTGTGCA AAATTAANTA NATATTNCTC 300
TTACCTNATA NCANAN 316

SEQ ID NO:4681

LENGTH:304

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05555

SEQUENCE DESCRIPTION:

GATCATCCTG GAATCCGACT CTGTCTCAGC TCAAGGGGGT TCNGAGATT CTAAGCTAG 60
 CCCTCTCATT TTACAGCTGC AAAACGGAG GCCTGTTAAT TCAGTCATT TATGAAATCC 120
 TTTGAAATTT TTATTGAGCT CTAATTGTGT GTGAAGTATT ATGGAATGCT TCTGTACTGG 180
 AATGCATAGG TTGAACAAGA CAGAAAGGCC CAGATGGCAG AAGTTCAAGA NCTTTCACCA 240
 ACCCATATAG NGACCTAGT AATATTAATG ACTAATGTTA ATGGANTCCA TGCTTTGTTA 300
 CGAN 304

SEQ ID NO:4682

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05556

SEQUENCE DESCRIPTION:

GATCAAATCG GAGTACTTAG CATATCTATC ATCTCGTGCA TTTATCATTT CTTTGTGGCG 60
 AGAACATTTA AAAATCCTAT TTTCTAGCTA TTTTGTAAATA TACACTACCT TACTGTTGCG 120
 AACCATAGTC ACCCTACTGT GCAATAGAAC ACCTGAACTT ATTCCNCCTA TCTAGTTGTA 180
 ACTTNGTACC CATTGNCCCC CCNTCCCTNC CTCCACTCT CCCCTCCCCA GNCTCTGGTA 240
 ACCACTGTTC TGTTCCTAT GAGATAAAAC TTTTGTGNC TTCCAAA 287

SEQ ID NO:4683

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05558

SEQUENCE DESCRIPTION:

GATCTTTTGA AGATTGCTGG AATACTGGTG TCTGTTAGAA TGCTTCAGAC TACAGATGTA 60
 ATTAAAGGCT TTTCTTAATA TGTTTTAACC AAAGATGTGG AGCAATCCAA GCCACATATC 120
 TTCTACATCA AATTTTTTCCA TTTTGTTAT TTTCATAATC NGGTATTGCA TTTTGCTTC 180
 CCTGTTTATA CCTCAAATTG ATTCATACCT CAGTTTAATT CAGAGAGGTC AGTTAAGTGA 240
 CGGATTCTGT TGTGGTTTGA ATGCAGTACC AGGNTTCTCT TCGAGCAAAG TAGACCTN 298

SEQ ID NO:4684

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05559

SEQUENCE DESCRIPTION:

GATCCATCTT CCTTACACTC CTTCCAAAAT AATGTTAATA CTCTGTCTAT CAAATGCTTA 60
 CAGTGTCTC TAGCACATAT AGGGTAAAGT CAAAGCTCAT TAGCAGGGCA TAGGAGGCC 120
 TTCATGACCA GCCTNACCNG CACCTCTAGC TACATCTCCT ACTGNGNCA CCTCCACATT 180
 TACCCTTCGG CATGCCAACC TGCTTATGGT TACGGGGCAC AGCTTGCTGT TTTGGNTNNT 240
 GTGCCTCCCN TTGTTTTGCT TCCTGNTGNT GAANTNATGN TGGGACCATT CTTGTGN 297

SEQ ID NO:4685

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05560

SEQUENCE DESCRIPTION:

GATCAGATTC ACTGTTTCAT CATATTTATT GTAATATATT TTTGTTTTG TAAATATGTT 60
ACAACAAAAT GTGATTGGTC TAAAATATTT GTAATGTATA TAAAAGGTT CAAAAATAAA 120

SEQ ID NO:4686

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05561

SEQUENCE DESCRIPTION:

GATCAGAGGA GTTCAGGGAG ACATACATAA AAATGTTAAT CACGGTTTTTC AAA 53

SEQ ID NO:4687

LENGTH:363

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05562

SEQUENCE DESCRIPTION:

GATCGCCAAG TGCAGGCACG GCATCGCATC CCCAGGTGTC ATCCTGTGAC CCAGGAGGGG 60
AAGATGACAC ACCCAATTTA GGTAATGCTG CACTTCTNGT TATAATTGGT TATTGGAAAA 120
TGTGCCTTTA TTATCAGAAC AGTGGTGTGC GCATTTCTGA TTATGGAGCT AACTTTTGGA 180
TATCTGACTT AGATACTAAA AACATTTGGG TGTTGCAGTT TTGCACTTGT AGATACAAC 240
TAAAAGCATG AAAGTGGTGA TTTAATTAGA TGTCTTCTAT AAAATGCACC TTGTTACATT 300
TCTGTGAAAG GGGTCTTACC AGCGTGGAAT AACNTGGCTC AAGGGTTTGA GGGGANCANC 360
NGN 363

SEQ ID NO:4688

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05563

SEQUENCE DESCRIPTION:

GATCCACGTG TACTGGCACC TCAGAAGACC AAATCATGGN CTGTACAAGT CTCTATACAA 60
TGTCTTTATC CCTGTGGGCA GNANGCAATG ATGATAATGN CAANCAGGN 109

SEQ ID NO:4689

LENGTH:369

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05564

SEQUENCE DESCRIPTION:

GATCAGAAAG CATTAGTCC AGTCAGAATT CAAGGTGGGA AAAGTAGGTG TATTTCTGAN 60

CCATTTGGGA AGGAAAATCA TTTTCTGAA CANCACTACC TGCATTTCTG TTTCTGCAGA 120
 CAATCAAAAA ACAAAACCANT AAAANTAAGT AAGTGAANGA AAGGCCANTT AGCATTATTC 180
 ATTTGCCTTA GGTTTACAGG GTCACAGATT CATTAGCTTA ATTACATCCT CATTTTGGNT 240
 GCCAAAGAAT GGAGCAAGAG CANTCAGTAT TGCTANCTGG CTCTTGCTTC TTCTTCCTGG 300
 GTTTGTTTTG GTTTTNCAGA GAAACAGGGA AGNGAGGGCA TTNGCNNAGT ATAATTGGTN 360
 TATAGGAGN 369

SEQ ID NO:4690

LENGTH:70

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05565

SEQUENCE DESCRIPTION:

GATCATAAAT GTACTTGCTG AATTCAATCA TTTTAAACAA GCCAATAAAG TTTGATAATT 60
 CATCTCCAAA 70

SEQ ID NO:4691

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05566

SEQUENCE DESCRIPTION:

GATCCTCAAG GCCTTGCTCT NCCCCGTGGA GACGCTTGCT CGGATGAGCT CAGGAAACAG 60
 TACCGGCTGC GTGGCAGGTC TGGGTGTTGT GTGCGAGGAC GTGGCCTTTG CACACCGCTG 120
 TGTTCTCAGA GGTCTTAGG AGATATTTTT TTTTGTCTTA GGGGGACTGT NTTAAGTTCA 180
 GACAAATCAN GCTGGGTGTG GAGAGAGTCT GAAATACGTC AGTGAAGTAA GTAGCAGTGA 240
 GCGATTGTGA ATTTGNANTN TAAATGGAAA ACCGGGTTTT TACCGGNGTT TTN 293

SEQ ID NO:4692

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05567

SEQUENCE DESCRIPTION:

GATCAAATC TTCATTGAAG TACTCATNAG GCGTGATGGC TGTGGGGTTG TTTGCAGTAG 60
 CACATTNCGT GGTGAGGTCC TGCTGAGCCA GNACTCAGGA GAGTCAGAAA TGCCAAANN 120
 TGTTTACAAG TGAAGGCCTG TGGCACTCAG TGTCTGAGGT GGACGTGTTA ACCAGCTAAA 180
 GACCGGGAAG TTCTATTAC TAACTTTTTT GCATGGAACA AGAAAATCTA TGAGGATATC 240
 ACCAACTAA A 251

SEQ ID NO:4693

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05568

SEQUENCE DESCRIPTION:

GATCCATCTT GCTTTTGCCT TATATAAAGA CTACAGTTAT GGAAGTNTGG AAAACTGTGG 60
CTTCTCAATA AATATTCAGA TGTCTAAGA NTATAAA 97

SEQ ID NO:4694

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05570

SEQUENCE DESCRIPTION:

GATCTCACAA AGTACAAAAC GAATGCCTTT CTTTCTTGT TTATAATGGT CACTCACTGT 60
GTTTGGTTAC TGTCAAGAAA TCAATAAATG TGTTTAACAA GTTAAA 106

SEQ ID NO:4695

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05571

SEQUENCE DESCRIPTION:

GATCAGTNGA TATTAAGATG AGATTACAAA TTTTNTTAAG TTCAGCCATT ATTACTTTTG 60
GTATCCCAGA ACATGACAAA TTATGAATAA AACAAGTATA CATAAA 106

SEQ ID NO:4696

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05572

SEQUENCE DESCRIPTION:

GATCCATAAA ATTTTATTAA TCAAGATATC ATATTAAAGT ATTATTATAT TAATTTATGA 60
CACCAAATTT TTAAACCAAT TTTATGTTTT TCCTTATGTA TCATTATAAA CCCTATTGCA 120
TTTTATAAGT AATANANTAT TTTNAGAAA 149

SEQ ID NO:4697

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05573

SEQUENCE DESCRIPTION:

GATCGCGACG GCTGGTTTGC ATCGCCAGCT TCTATATATT ACGGCCTTTT TTTTGTCTGG 60
ATATTATCTT GTAAAACGTG AAGACTACCT GTATGCTGTG AGGGACCGTG AAATGTTTGG 120
ATATATGAAA TTACATCCAG AGGATTTTCC TGANGAAGAT AAGAAAACAT ATGGTGAAAT 180
TTTTGAAAAA TNCCATCCAA TACGTTGAAG TCTTCAAAAT GCTTGCTCCA GTTTCCTGA 240
TACCTGCTGT TTCTGAATTT GNTGGGGCAT GTTTCCTATG GCANTTGGAG GCTNATTGNT 300
AATNTGTATG TTGGCACCTT GTNATTAAAA TACGGGGCCA TGNNANAAAA AAAAAA 356

SEQ ID NO:4698

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05574

SEQUENCE DESCRIPTION:

GATCCACCTG CTTTGGCCTC CCAAATGTTG TGTCTTTTAA AAGTATCTAC AGTAACCTTG 60
TATCAACTTA GTTTGTCAGT CTATTAATAC TAAATTTAGC TCCTTCAAAG CAGTTGGAAC 120
TATGTGCTAC ATAAATTTCA GTTTCACCCA AGGGAAGAAG TGAAATTAGT GAATAGACAG 180
TTACAGCAAA 190

SEQ ID NO:4699

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05575

SEQUENCE DESCRIPTION:

GATCCGNTCC CAGACGGCCT TGGACTGCTT GCATTTCCCC GGAGAAAAAG GGGTTAATAA 60
ATGGGCCATC CTTCTGTAA A 81

SEQ ID NO:4700

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05576

SEQUENCE DESCRIPTION:

GATCACTGTG GGGTCAAGAA TGTCTTACAT GTTTTATTCA TCATTCTTGA NGGAAGAAAT 60
AATTCAAACC TTGGAATTAA AAAGTCAAA 89

SEQ ID NO:4701

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05577

SEQUENCE DESCRIPTION:

GATCTTGGCA AGAAACCCTA ATCTCCCTCC AGAAACAGTG GACTCTCTAA AAAATATCCT 60
GACTTCTAAT AACATTGATG TNANGAAAAT GACGGTCACA GACCAGGTGA ACTGCCCCAA 120
GCTCTCGTAA CCAGGTTCTA CAGGGAGGCT GCNNNNACTC CATGTTACTT CTGCTTCGCT 180
TTCCCCTACC CCACCCNCCG GCATAANGNC ANACCAATCA ACCACGACAA AGGNAGTTGA 240
CCTAAACATG TAACCATGCC CTACCCTGTT ACCTTGNTAG CTGCAAAGTA AACTTGNGC 300
TGNCTGCAA A 311

SEQ ID NO:4702

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05578

SEQUENCE DESCRIPTION:

GATCTCTCTT GCACGGGCCT TGCCAAGGCC CAGGAGGGAC TTGGGCAGTA TGTTTCATGTG 60
GTCATATGTT TTTGTAAAAA ATTGTGAAAAG TAAA 94

SEQ ID NO:4703

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05579

SEQUENCE DESCRIPTION:

GATCCGAATC CGACTGTGGG GGGCGGGCTG GGAGGTGGGA GCCGCGTCTC AGGCCCGGCC 60
GTTATCAAGG CCCCTCCGCC CCCGAACCCT GGGGAGCTGG ACCAGGAGGT GGAGGCTCAG 120
GGGACCCCAT GGGGACAGGC AGAGCTGGTC TCCTCCCAGC AGACGGAGCC AGGACGGGCA 180
CAAGAGTCTT GGAGGTTTGC GTGTTTCTGC TAGAATTAAA AAGTTAAATT TAAAAATGAA 240
AATGNAAA 248

SEQ ID NO:4704

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05580

SEQUENCE DESCRIPTION:

GATCAGCAAA GTGAGACAAA AGAAGATACT TCCCCAAAGA AGAAAAAGAA AAAATTGAGG 60
CAGAAA 66

SEQ ID NO:4705

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05581

SEQUENCE DESCRIPTION:

GATCGGGTCT CGGAAGGGAA GTAGCCATCA CACCATTAAA AAGCCTGTGG ACCTTTAAAG 60
GNAAA 65

SEQ ID NO:4706

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05582

SEQUENCE DESCRIPTION:

GATCTTCTTA GGACATCTTT TTTAAAAAGC TGTTTAGTAT CATTTTGTGT ATATTGTTGA 60
AATGCTTTTT CATCAATAGC AGTCANCATT TTATCCTTC TTTTATATT CATAATGTTA 120
TTTAAGTGTC ATTGATGTAC TGTATTGACT TGGGGTTTGC TTATTGTGA CTTAACATGT 180

GTACATGCAT GAAAGCATT TNGTTGTTT CCTGATAGTT ACATTTCAAC CTTGGGATTT 240
TNCCAAATNA CTTAAGANGT TTAATGTCAG TNAAAGATT TNTTACCCTC NTTTTGGGAA 300
CATCAATN 308

SEQ ID NO:4707

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05583

SEQUENCE DESCRIPTION:

GATCCGGAAG ACCACGGCCA GCCAGGTGTA CGAGACATTG CTCACCTACA GTGACGTCGT 60
GGGCGCGGAT GTGCTGGACG AGGTGGTGAC TGTGCTCAGT GACACTGCGT GGGACGCAGA 120
GCTTGCAGTG GTGAGAGAGC AGCGCAACCG TCTGTGTGAC CTTCTGGGCG TACCCAGGCC 180
CCAGCTGGTG CCCCAGCCTG GTGCNTGCTG AAGCCAGTCC TTGGAGCCCA TANCTCACCC 240
CTGCCTGGTG AGGATGTCTT GTTTCCTGAG GGTAGGCCGG TTGTGGAAAA GCCTCANNAC 300
NAGTGNTGCC TNNAGGCTGN GAN 323

SEQ ID NO:4708

LENGTH:302

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05585

SEQUENCE DESCRIPTION:

GATCTTCCTT TGGAACCAGG CACATTTGGC CCCTTCTCAG TGAAGTCACT GTGGAAGTCT 60
TCTTAAGAAA ATATTGAAAA CAGCTTAATG CTTTCATATA GTGACCGACA TTTAGTTGAA 120
AACTACTGCT GCATAGCAAA TATTGTGACT CTTTCATGTG CCACAGGAGC TCTTGTGTGG 180
GTTTAAAGCT ATGAAGTGTA TTCACATTGT GAAGTTTAA TTATCTTTAT TGAAATTAAT 240
TGTGTAAAAA TGGTATGTGC TCTATTAGGT ATTCAGTTG TATGTGAATT CTATAAAGAA 300
TN 302

SEQ ID NO:4709

LENGTH:302

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05586

SEQUENCE DESCRIPTION:

GATCCCTCTC AGCTACTGGG AGCTGCTTTG TGCCTTGGA GCCTCAAGCT GAAATGGATG 60
TCAGCCTCAA GTTTAACTCC AAGAGGGTTC ACCTTGTTTC TTTGAACAAA ATGTGCTGCC 120
TGTGCTTCC CTTTGCCAGG AGTGGTGTTT CCTTTTCCAC AGGTCTGGAC CACAGTGTCT 180
CTAGCTCCCG CTCCTGGATA CTTGGTTACT GTGTGTTTCG GGAAGGAGG ATNCACAACA 240
TGAATATNCA CTAAGCTGTA ACAGGGGCCT GCTGCANCTA TAGTATTTC TGAAAAAGTA 300
TN 302

SEQ ID NO:4710

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05587

SEQUENCE DESCRIPTION:

GATCTTGCCT CTTTCCTCCT TCATGAAAGC AGCACACATT GTGTAACTT ATGTCTCTTG 60
TTAAATNAGC TTAATGTCTT TGTGTTTGT CCAAACTGT ATTGNNNNAA TATTGTTAA 120
TGCAAATNAA GGAATGCAAT AAAGAGTAAA TATACTTGAA A 161

SEQ ID NO:4711

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05588

SEQUENCE DESCRIPTION:

GATCAGAGCG TGGGAGGAGG TGGGGGTGGA CGTCCATCCG GTGAACAGTG AAGGCGTTTG 60
TGAGGTCTTT CTGGTCCCAG CATGAAATAA AGCCTTGGCC TGGGGGCCG TTCATTCAAA 120

SEQ ID NO:4712

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05589

SEQUENCE DESCRIPTION:

GATCTGGCAG TACCCAGCCC TTGTGTGTGT GCGTTANTCA GCACCTGCCC AACTGCGAG 60
CCCCCGTAGG ATGTGCCTTG TCCTTCCCTG TTTCAGCACT TAACACACTA CCTGGTACAG 120
AGTATGTAGT GGGCATCTGT TGAATGAATG CTTTTCCAG TAGCAGTGTA TTCATACAAT 180
ATTAATATAA TTGTCCCCTG GCTTACAGAT ANAAATGAAA GCATCAAGTG CCCAGTTGAG 240
TGAGACCCAG GTGTTCTTCC TNCACCCCTT AGTGGTTCCC CTGGGGGCAG NTCTTTN 297

SEQ ID NO:4713

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05590

SEQUENCE DESCRIPTION:

GATCTCTGCG CTAGGTCGTT TACCGCTATT TATTTTATG GGGAAAATAA AACTCTCAAA 60
AATGAAA 67

SEQ ID NO:4714

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05591

SEQUENCE DESCRIPTION:

GATCACTAGA TGATTCTAAC ATCGAAATAA ACCTCTTTT ATATGGCAAA 50

SEQ ID NO:4715

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05593

SEQUENCE DESCRIPTION:

GATCTGGTGC GTGTGGCCCT GTGGGAGTCC ACTTTCCTCT CTCTCTCTCT CTCTGTNCCA 60
AGTGTGTGTG CAATGTTCCG TTCATCTGAG GAGTCCAAAA TATCGAGTGA ATTCAAAATC 120
ATTTTNTTT TCCTCCTTNT CAATGTGATG GAATGAACAA AAAGGAAAAA ATCAAAAAA 180
CCCAGTTTGT TTAAAAATA AATAAATANA GCAAATGTGC CANTTAGCGT AAA 233

SEQ ID NO:4716

LENGTH:282

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05595

SEQUENCE DESCRIPTION:

GATCTTGCCT TGAGGAAGAC CCAGGCCATG TTCCCAAAGG NCAGCGGGGG CCCTGGATTG 60
TAATGCAGCC TCGGGACAGG GCTGAGGCCT GCGGGGGAAG ACCTATACCC CACGACTGGG 120
CCTGGNTTCA CCTCACCCTA ATCCCCCGGG AGGAGCTGAC TGATGCAAAA AGCTGAGGNN 180
GCCTGCTGGG NNGTGGCTGT TTTNATGNCC CAGCCCCGNN AAGTTGGGGA GTGTTTGTGG 240
GGGTNCAGAG CCCTNCCCCA GNCAGGAGAG AACCTTCCTN TN 282

SEQ ID NO:4717

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05598

SEQUENCE DESCRIPTION:

GATCTAGGAC TAATTCAAGG GTCTAGATTT ACCTCCAAAC TTTGTTTATC TACAAAAAAT 60
AAAACCTCTAT CTTCTTTAAA 80

SEQ ID NO:4718

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05599

SEQUENCE DESCRIPTION:

GATCCTTCCC CTCTCAGACA CCCCTCTTTC AGCTTAGAAT TTGGGGAACC TATAGAGAAG 60
TCACAGAAATC CCATGAAAGG GAATGGGGCA GGAGCCAGGG GTGTTTTTNC CCAGTGCAGG 120
GTTGTGTCTT TGTGTCTCTG TCTCTGTGAC TGTAATCCT GCCCTGCCCC ACTCCCAATA 180
AAAGCTTTGG TGTATAGGCT CAAA 204

SEQ ID NO:4719

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05600

SEQUENCE DESCRIPTION:

GATCAGTTTG TTTCTTTCTG TGCTGGTAAC AATAAGCGTC GCACAGACAT GGTTCAGGT 60
AANTAAATCT ATTCTATGAT AAA 83

SEQ ID NO:4720

LENGTH:289

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05601

SEQUENCE DESCRIPTION:

GATCTCTGGA TTGTGTTATG TCAGTGTTGG TAGGTTAGGA ACTAGATTTC CCAGAATCCA 60
TTCCATTTGT NATTCATGA TACAATTGAC CAGTAACCTA TCTACATGA GATTCGGAAG 120
TAAGTTAAGA AGGCATTAGT CATGGTTTGG AAGCACCATA CAGGGAGACA GCTGTGTGAA 180
TACAGGCTGT ATGGACACTT GCTTCCATCC CATNNCCTG CTTCTTTGGG TTGCCAATCA 240
AGTGATCCT CAAAACGACT TGACTTTAAT TTTCTCGGAG GTGATAGTN 289

SEQ ID NO:4721

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05602

SEQUENCE DESCRIPTION:

GATCAAGTCT TACATGCCCA TTCAGCTTCT AGGCCCCCCT CACCTCCCTG CCCTCATTCA 60
CAAGTGGCCC TGAGACACGT GAACACCTCC CTNCTATGCA TCACAAACCT TCTCCACCGA 120
GCTTTGGTGC TTTNGCCTCT GGNACACCTA ACTAGCATTG GCAGAGGAGA GTCTACACTC 180
TNTTCTNAT TCAGGGTNGA TGCTTTAAGA AATNCTGNCT CTTGTGNANG CAGAN 235

SEQ ID NO:4722

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05603

SEQUENCE DESCRIPTION:

GATCGTCAGC ATCATCGGAG GCATCAGTTC CTTCTTCATC TTCATCTTCC CAGGTTTGTG 60
CCTCATCTGT GCAATGGGTG TCGAGCCTAT AGGACCAAGA GTCAAGTGCT GCCTGGAGGT 120
CTGGGGAGTG GTCTCTGTGC TGGTCGGCAC CTTNATCTTT GGGCAGAGCA CGGCGGCAGG 180
GTCTGGGAGA TGTTCTGATG GGCAGCCAGT GCCGGGCAGG AAGGGGCCCT CCGGGGGCTG 240
ACCCTACGTG GCTGCTGTAT GCAGNNGGGA GANCAN 276

SEQ ID NO:4723

LENGTH:278

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05604

SEQUENCE DESCRIPTION:

GATCAAGGTC ATAGAAAGTG AAGATTATGG CCAACAGTTA GAAATCGTAT GTCTGATTGA 60
CCCCGGCTGC TTCCGAGAAA TTGATGAGCT AATAAAAAAG GAACTAAAG GCAAAGGTTT 120
TTTGGAAGTA CTCAATCTGA AAGATGTAGA AGAAGGAGAT GAGAAATTG AATGACACCC 180
ATCAATCTCT TCACCTCTAA AACACTAAAG TGTTCCGTT TCCGACGGCA CTGTTTCATG 240
TCTGTGGTCT GCCAAATACT TGCTTAANCT ATTTGGAN 278

SEQ ID NO:4724

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05606

SEQUENCE DESCRIPTION:

GATCTGGAAT GCNACCGGAG CACTTGCTCT GAGGAATCCC AGGGTGACTC TGTCGGGGAA 60
GAATCCGGTC ACAGCCTCCC CTCAGAGACA GGCCTCANTT CGAGGGCAGC CCATTATCTG 120
TCGCAGCATC TGCCATGTCC CTNAGACTGC GGGAGGCAGG GNATGCATGG GTGTCCCCAT 180
CTGTCCCTGG TGAGAAGCAA GGCTAGCTCT GCCTTCCACA TGCTTNTNAG GATGCCAAGA 240
GGCCTAGGAA CCCAGNAACC CCCTTGNGAG GAGCTGTGNN 280

SEQ ID NO:4725

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05607

SEQUENCE DESCRIPTION:

GATCTGCATT CACCTTAGGG CTTAGCCTCT NATTTTATGA ATTTTCAGGC TGTGATTNGT 60
GTTGGATGGC TAAGNTCTAA GATAATGCAA ATAGCCCCAA TCTTTAAATA TAGCGGTGCT 120
AAGTTGAACA NGTAACACAN TACAGAAAAT GCTGATATGA ATACTTAGTA ATAATACAAA 180
AGTTCCTGCT AAATTATATA TGTGTATCAC TGCCTGNCNN GANACCCAC TTNNCTTTTC 240
TAATCCAGCN CAN 253

SEQ ID NO:4726

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05608

SEQUENCE DESCRIPTION:

GATCCAGATA GCCTAGGGTG AGGGTGACAG AGGGACAGTG GGCTATGCCA CTAGGCCCTG 60
GTCTGGCTTT GGAAAGACCT NTGAGGGGAA ACCTTCACCC AGCACCCATG CCCCACTCTG 120
CTGAGGCCAG AGGAAGGGAG GCCTGAGGGG CAGATTNGTT CATGCCTGGG GTGGAGGCTA 180
AGCCTGGACA CAGTCAGGGC GGGGCTGGCC AGCTGTGCGA GAACACAAGC CACGCCTGCN 240
ATGGTGCTGC ACCCTGGGT GTCCCTGCCT TGGCCCTGCT CTGGTCACTT CAAACATNGT 300

N

301

SEQ ID NO:4727

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05610

SEQUENCE DESCRIPTION:

GATCATAAAA CAATAAAAGT AGTTTTCTAA TGTTGCTCAT AAAGTGGGAC TGAAAATCAT 60
TTCAAATCCA GGAGACAGTC CAAAAATGGT TATTGAGCAN TGGCCACATA TTGGAATAAA 120
AATTTTNATT TTCAGTCTGT GTTTTGGGAA AACAGCATTT CATTGCATAG GTGGATAAGT 180
NCTAGAATAT TGGCTAANCA TATNGTCATT TGCTATAATG CATATGCATT NCAGAAGTTT 240
TCTNGCTCCT GANGTATNAT GGGGGGTTTT CTAGCTCCCN TATNGCNAAG ANTTN 295

SEQ ID NO:4728

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05612

SEQUENCE DESCRIPTION:

GATCACTTGA GCCAGAGGTT AAGTCTGCAG TGAGCTGTGN TTGTACCACT GCTCTCCAGC 60
ATGNGCAACA GAGCCGGACC CTGTCTCACC AAAGNCAAA 99

SEQ ID NO:4729

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05613

SEQUENCE DESCRIPTION:

GATCCATTGT CGGGAGCTTG TGGCACATCA CCTTTCTACT CTGCAGTCTT CCCTGCCTCT 60
NAATTCCGTT TATGTCTACC GTCCCTCAA GCACACCCTG GTGACCTGTG ACAAAGGAGT 120
GTTCAAGTCA CATCCCTCCT CTGTCCCAGG CCCAGACTTC TCCAAGGACA ACAGCAAGCC 180
AGAAGTGCCA GTCAGAGGTT NAGTAGCCTT TTACCATCAT CTCCAGNTG CCAGTGGGTG 240
CAAGCAGACC TCTACTAAAC GNAAAGTAGA GGGAAATGGN AGTGGATGAC TTNTGTGATG 300
GANTCAAACG GCTCTATAAT GGANGGTTN 329

SEQ ID NO:4730

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05614

SEQUENCE DESCRIPTION:

GATCCTGCCC TTTCTGGGT NGGTGGGNGG TATAAGCACT GCCACCAGAA CTGTTGGGTG 60
CTAGCTTCAA AGCCCAACAC AAGAAATACT ACCAATTATG AAATTACAAC AACAANTNTA 120
AATGACATAA TTTTTTGAAA 140

01460

SEQ ID NO:4731

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05615

SEQUENCE DESCRIPTION:

GATCCATAGG ACTACGCAG CCCGGACTCA CCAACTTGCC ACATGTTCTA GGTTTCAGCA 60
ACAAGACTGC CAGGTGGTTG GGTTCCTGCCT TTAGCCTGGA CCAAAGGGAA GTGAGGCCCA 120
AGGAGCTTAC CCAAGCTGTG GCAGCCGTCC CAGGCCACCC CCATGGAAGC AATAAAGCTC 180
TTCCTGAAA 190

SEQ ID NO:4732

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05616

SEQUENCE DESCRIPTION:

GATCCCAGCC AGGAAGGCTG GGGGCCCTAC TGTTTGTCCT CTCTGGGCTG GGGTGGGGGN 60
AGGGAGGAGG TTCCGTCAGC AGCTGGCAGT AGCCCTCCTC TCTGGCTGCC CCACTGGCCA 120
CATCTCTGGC CTGCTAGATT AAAGCTGTAA AGACATAAA 159

SEQ ID NO:4733

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05618

SEQUENCE DESCRIPTION:

GATCACAGAC AAGCTGGGCC TGCATTCCCT TCGTCACCGT AACTGGTACA TTCAGGCCAN 60
CTGTGCCACC AGCGGGGACG GGCTGTACGA AGGCCTGGAC TGGCTGGCCA ATCAGCTCAA 120
AAACAAGAAG TGAAAGCCAG ACAGCCCTAA CAAAGCACCC CACCCACCCC TGACATACCT 180
ACTGTNACCC TGCCCCAGTC CTACCCCTTC CTCTCCATGC AAGTNTGGCC AGGGCCCTGG 240
GTATCATGTC CACATGCCCA GCAAGAGCCT TGCCTNCCNT TGCCTGCNCT GCTTN 295

SEQ ID NO:4734

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05619

SEQUENCE DESCRIPTION:

GATCCACCCA CCTNGGCCTC CCAAAGTGCT AGTATTATGG GCGTGAACCA CCATGCCCAG 60
CCGAAAAGCT TTTGAGGGGC TGAATTCAAT CCATGTAGGA AAGTAAAATG GAAGGAAATT 120
GGGTGCATTT CTAGGACTTT NCTAACATAT GTCTATAATA TAGTGTTTAG GTTCTTTTTT 180
TTTTTCAGGAN TNCATTTGGA AATTCAAANC ANTTGGCAAN CTTNGTATTA ATGTGTTAGG 240
TGAGGNGGN CATTGGTATT CTGGGCACCT TCCTAATATG GCTTTACAAT CTNNN 295

SEQ ID NO:4735

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05621

SEQUENCE DESCRIPTION:

GATCTCAGCA ACAGCTGGGT AATAAGACTA GCATAGCTCA AACTATCCTG CCAAACGCTC 60
TCATCTGATT TTNCTCCCT TCTCCCCAA CCTCCAATCA CCCTGAGTCA CCTGTAAATN 120
CATTTGTNAT TCAAAGCGGA ATAACANGTT GTCCCTAGCA NNNCCGCTGA GCGCTTTATA 180
ATTTTNTGGT GTATTTTGT NAGTAGGTAG CAGAGGCGGA NGTATTTTNN GGTGTAATTC 240
TTGANATTTT CTGACAGGN 259

SEQ ID NO:4736

LENGTH:232

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05622

SEQUENCE DESCRIPTION:

GATCACTGCA TGTTATGATG GCTTGTAAGT GCGTTGTAA GACTTTTNTT TCAGTGTTTG 60
TNTCCCAGTA TTTGAACCTA ATTTAAAGAA AAAGACGTTT CCAAGTTGTA TTTATTAAAT 120
GTNTTTTNC TACCTTTTG TNCTGCTACT TTNCTAATCT CATTAGCTTA GCTGTGTTTG 180
TNCATAGGTT ATATNTGGTA ATAAATNTAT AGAGTGTTNG TTGTCATCGA AA 232

SEQ ID NO:4737

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05623

SEQUENCE DESCRIPTION:

GATCTGTAAG TTTATTTGCT CAATGTACGA CAGCTACATA ATGACTCACA TTCATGATAT 60
TCCATCACTG AGGAAACTGC TAAAGATGGT CCGTGTGTGA AATAATTCCT TAGAGAAACA 120
CGGAGCTGGA AAAATAAA 138

SEQ ID NO:4738

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05624

SEQUENCE DESCRIPTION:

GATCCAACTG GACAACGTGT GGGATGGACC TGGAACAAG CACCTCCCCA AACACATCAC 60
CACTCCCTAG GCGGGGCT GTGCATGCTC TCGCATGACA TCTCCATGCT GGTTCCTGCA 120
TAGCATAAAT GGAAG 135

SEQ ID NO:4739

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05625

SEQUENCE DESCRIPTION:

GATCGATGTT AAACGTCACA GCAGTACTTT GCTCAATAAA GGTCATATTG GAAACATAGT 60
CAAA 64

SEQ ID NO:4740

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05627

SEQUENCE DESCRIPTION:

GATCTGTGGT AGGGTATTGA GGGATGAGGG AGAAAAACGA CCTAATTCAN GTAGGACTNG 60
CAACGGCTCC CACCCTCCCT GGGGACANGG NTAATAAAA ATTGACATCA CAAGAAA 117

SEQ ID NO:4741

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05628

SEQUENCE DESCRIPTION:

GATCAGAAGG GCTGCGTGTA GCACCCTTAT GGTCTTGCAG AACACACCAA GAAACCCGAC 60
GGCTTCCATA TTTNCTGACC CTACAAACAG GTGCCTAATA CTGATGTGGA GAAAGCTCAA 120
GAGGGAATCA TCTGGCCTGA GCCTACCATG AGGCTGTTTG TGGTNCTGGC AGAAAAGCAA 180
CAACTCGCTC CCCTTCCCAT GTATCAGTGA AAACCATTAT GCAAATAAAG AGCTGGGCCC 240
CAAA 244

SEQ ID NO:4742

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05629

SEQUENCE DESCRIPTION:

GATCTTTTTT CCTCCTTCTG TTTATNTTTT TGTTTGTTTT ATTTATAGTC TGATTAAAA 60
CAATCAGATT CAAGTTGGTT AATTTTAGTT ATGTAACAAC CTGACATGAT GGNGGAAAAC 120
AACCTTTAAA GGGATTGTNT CTATGGTTTG ATTCACTTAG AAATTTTATT TNCTTATAAC 180
TTAAGTGCAA TNGAANGNGT TTTTNCAAA 209

SEQ ID NO:4743

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05630

SEQUENCE DESCRIPTION:

GATCATATAC TGTATATATA AAANNNTTGA GATGGTAGAA ACATGTATGA NTGTACTAAG 60
 TAGTATTCCA CTGTACTCAT TCATAAGGTA GGTTTTCTTA CAAAACACAC ACCAGGTACT 120
 TAAAGATGTG CTCTGCTTTT TTCCAACCTAC GGAGTGTAC TGCTTTCTAG GTCAGTCCCT 180
 GCAGACTCTT CTCAACTCTT TCCCTATAGG AAACCTACTC CGCGTCCTGC CCCCACCTCC 240
 TAAATAAATA ANGGAATCGG CGAAA 265

SEQ ID NO:4744

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05631

SEQUENCE DESCRIPTION:

GATCCCTAAC ATACTGTACT ACTTGCTTNT ACAATGTGTT AGCAGAAACC AGTGGGTTAT 60
 AATGTAGAAT GATGTGCTTT CTGCCCCAAGT GGTAATTCAT CTNGGTTTGC TATGTTAAAA 120
 CTGTAAATAC AACAGAACAT TAATAAATAT CTCTGGTGTA GCACCTTTA CTGTAAA 177

SEQ ID NO:4745

LENGTH:377

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05632

SEQUENCE DESCRIPTION:

GATCAGCCGA AGAAAGCAGA AGCTCTGGAG GCTGCCATCG AGAACCTCAA TNAAGCCAAG 60
 AACTATTTTG CAAAGNTTGA CTGCAAAGAG CGCATCAGGG NCGTCGTTTA CTCCAGGCC 120
 AGACTCTACC ATACCCTGGG GAAGACCCAG GAGAGGAACC GGTGTGCGAT GCTCTCCGG 180
 CAGCTGCATC AGGAGCTGCC CTCTCATGGG GTACCCTTGA TAAACCATCT CTAGAGAGGA 240
 CATCCCTGCT GGGCTGCTGT GCAGAGTATA AGATTTTGA CTTGTTCATG TCCCCTCTCT 300
 CCCTATAAGG GGTGTATTG TGACACCCTA TCTNGTCANT AAACAGCATT TCTGATTA 360
 AANAANAAAA AAANAAN 377

SEQ ID NO:4746

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05634

SEQUENCE DESCRIPTION:

GATCCTGAAG TTTTGTGCA ATAGGCTCTG TCTTCGTGAG AGACGGGCTG AGAGTCAGAA 60
 ATAAATCAAC CATTTNTGGT TTATTCAA 89

SEQ ID NO:4747

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05635

SEQUENCE DESCRIPTION:

GATCTTTCTT CTCCCAGCTA AGAGTTCTTC AATAAATTTA AGAAATACCT GGAAA

55

SEQ ID NO:4748

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05636

SEQUENCE DESCRIPTION:

GATCAGCAGG GACCAAACCA TTGCCACATC CCAAGGNTGA ACAAGCATGG CTGAGCACCA 60
GAGTNTGCAC CAAGTNTGAN TTAGGCCTG CCAAGTGGAT TTACACCCAG CACGTCCCAA 120
ATTTGGGTGA GTGCATGCCA ACCCTGTAAA CATGTAGGGG TGGACAGGTC AACAGACAAG 180
GTGACCCAG CNTCCCGGCA AACTTGATTA ACACATACTG GNCACAGCAA TTANNNGAN 240
NTGN 244

SEQ ID NO:4749

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05637

SEQUENCE DESCRIPTION:

GATCGCAGGG CCNTAGGTGC CTGGACCCAG GGTGTGCCAG CCCGTCTCTN TGCAGTCCCT 60
GGAAGGGCGC TGAGAAAGGC ACCAGCTCCT TGGACCCAC CTCCCATGCT CTCACTCTCA 120
TCCCCGTTCT CTTGTCCACA CAGCTCTTCC AATAAAGGTG TTTCTNTTCC TCCTTCTCCT 180
CAAA 184

SEQ ID NO:4750

LENGTH:282

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05639

SEQUENCE DESCRIPTION:

GATCCTAGTT GCCTTTGTGT ATATTTACTG CCTGCTTGAG TGTTTCTATG TGTGGGTTTT 60
CCCTGTATCT TGAGAAATG TTGGGGTGTT TTCCTCTGCC ATATGGCTCG TGGCCTGCGA 120
GCCAACTATT TCAGNTGTGT TTNACCTTCA TTTTGTATGA GGTGATTAA ANNTNGTTTC 180
ACTTTGTGTA GTGAATTCCA CAGTAGTTTT CTGANTGTNG TTAATAATGA CTTAACATAT 240
TACACAGATA TTCAATAAAA ANGTTTTATT TCCTGTTGNA AA 282

SEQ ID NO:4751

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05640

SEQUENCE DESCRIPTION:

GATCCCATTG TGTATAAGTT AATATGTGAT AACTATTGAA TCTTGTACAA AAACAAAAAT 60

TGAAA

65

SEQ ID NO:4752

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05642

SEQUENCE DESCRIPTION:

GATCCATCCG CGGTGTTGCC TGAATCAACC GCTCATCCCT CGGATTGCTG AGCAGGATTC 60
ACAGGGTGGA GGCACCACAA TGTATCTGTG TCCCCAGAAA GAATACTTGC AGTTTCCAGT 120
TGGACACTTT ATCAATAAAA TCACTATAAA CATCTGAAA 159

SEQ ID NO:4753

LENGTH:352

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05643

SEQUENCE DESCRIPTION:

GATCTTGAGT TGCAGTCCAC AGCATTCACA TTCTCAGGAT AAACATGCTT GTCTCCATAT 60
ATACTATCTG TGCTGTAAAT GAATGAAAAA TCCATCCACT CTGCTGCCAT TCACAGCCTA 120
ATCTTCTGGA GTAGTCCAAA CAATGTTTGG AAAAACATGG GACTGTATGT CATTACTATG 180
ACTGATAGCA GAATAATAAT GCATCTNACT TCTATATAGN GATAGNCTTA CATAGGTTAC 240
CCTTGANATT CATTAGTNTG TCATANGTTT TAGGAAAGGT AGGACCCGGN AAGNNGTTCT 300
ANTTAGTTGT CTAAATNTTT TNCAGTGNGC CAAGNNATTC ACCATGANAN AN 352

SEQ ID NO:4754

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05644

SEQUENCE DESCRIPTION:

GATCGGCTCA AAGCCTGTCA GCAGAGGGAA GGACAGAACT ACCAGCAGAA CTGTATCAAG 60
GAAGTGGAGC AGTTCACCCA GGTGGCCAAG GCCTACCAGG ACCGCTATCA GGACCTGGGG 120
GCCTACAGTT CTGCCAGGAA GTGCCTGGCC AAACAGAGGC AGAGGATGCT GCAAGAGAGA 180
AAAGCTGCAA AAGAGGCCGN CGCTGCCACC TNCTGAGGCA GCTGTGGGTG CCCCTGCTGT 240
GTGGCTCTGT ATNACTTGTT TGCTTGAAAT NTAAAAGGCC TNGCAAACCC TGGGAAA 297

SEQ ID NO:4755

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05645

SEQUENCE DESCRIPTION:

GATCCCAGGC CTGTGGCTAG CAGCACTGGG GACAGGAATG GCTGGTCCCT TGAGGAGGTC 60
GTGACAGGCT CAGCCTNGTN GTCTNGAGGG GACTCGGAAA TAAATTGTAG CAGCTTTCCT 120

01466

GCCAAA

126

SEQ ID NO:4756

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05646

SEQUENCE DESCRIPTION:

GATCTAAAAA GTCAAAAATC TGAAATTAA TAATATGAGA CTTACACTGA NTATAATGTT 60
CATTTAGAAG TTGCTGTGGT CCACTTCATT TATANGGAAC AAATATTTT ACAGTACACT 120
ATAGCAACAG CAAAAGCCCT CTCTCACCT GATAGGAATG GGTTTGCTGG GTGTCTAGAA 180
GTTAGATTCC TGCTGAATAG ANTTAGCCAT CCTTAAAAGA TNTTAATCCA ATACTGAACT 240
GGTTTATAAA ANGCTTTCTC TATTGTANTG NACTGTAAAGT AGTGAAATTC TGTATATACT 300
GCTATTNGCT GNCTGTN 317

SEQ ID NO:4757

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05647

SEQUENCE DESCRIPTION:

GATCAGTAAT CCTATTAAAG AAGCGGAAGA AGATACCTCA GAAAGGTCGG AAGAAAAAG 60
GTTTTCGGAG GCGGCGGTGA TTATGGGTGT ACATATTTGT ATATTTTTTG TCATCCTGAG 120
ATACTTCTAA TTTCATTGTA TATAGGTGGT TTTCCCTGGA ATTCATTAAT TGTTTGCTTT 180
GGACATGTGG AAAGAGCCTT ACTAATAAAA TTGATTTTAC TTATGAAA 228

SEQ ID NO:4758

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05648

SEQUENCE DESCRIPTION:

GATCAGTTCT GAAACAGTTT CTTTCTGAAA CAGAGAAAAT GTCCCTGAA GACAGAGCAA 60
AATGCTTTGA AAAGAATGAG GCCATACAGG CAGCCCATGA TGCCGTGGCA CAGGAAGGCC 120
AATGTCGGGT AGATGACAAG GTGAATTTCC ATTTTATTCT GTTAAACAAC GTGGATGGCC 180
ACCTCTATGA ACTTGATGGA CGAATGCCTT TTCCGGTGAA CCATGGCGCC AGTTCAGAGG 240
ACACCCTGCT GAAGGACGCT GCCAAGGTCT GCAGAGAATT CACCGAGCGT GAGCAAGGAG 300
AAGTCCGCTT TN 312

SEQ ID NO:4759

LENGTH:95

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05649

SEQUENCE DESCRIPTION:

01467

GATCAAGGTA AGAAACATTG TAAAAAAGT TTACAAAAGT GCTATTTGTT TCCTAAAAAC 60
AGTGATTTCT ATAAAAAGG TGTCAGANCT GAAAA 95

SEQ ID NO:4760

LENGTH:336

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05650

SEQUENCE DESCRIPTION:

GATCCTNTTT CCANTTNAAG GGAAGTGTAA GCTTTTATCT TTTAACCAAC TGAACAATAC 60
ACCAAAAGCA GCCTAGGGAT GAGCATTCTT TTGAAAGCAA TTAGGTTATT CACCTGGTAT 120
TAAAACTATT TACTGTATAA AAATCTGTGA CTTTATGAAG TTGATTNTA AAGGCAGCAT 180
CANAACTGA NANGGAAGGG AAANANTAGG CAGCTTCTCT GCACTTGTTC GGAGCTCCCC 240
AAANCAGGGT GCCATGGGGN AGTGGGCATC AAGNCCGGGC TGCCCTTCG NGGTCANCCT 300
GTGGCAGTTC AGAGTCANGG TTTTCCTNC GCTGGN 336

SEQ ID NO:4761

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05651

SEQUENCE DESCRIPTION:

GATCCAAATT CCCAGGTCGG CGCCTGCATC GTGAATTCAG AAAACAAGAT TGTCGGGATT 60
GGGTACAATG GGATGCCAAA TGGGTGCAGT GATGACGTGT TGCCTTGGAG AAGGACAGCA 120
GAGAATAAGC TGGACACCAA ATACCCGTAC GTGTGCCATG CGGAGCTGAA TGCCATCATG 180
AACAAAAATT CGACCGATGT GAAAGGCTGT AGTATGTATG TTGCCTTGTT CCCTTGTAAT 240
GAATGCGCTA AGTCATCAT CCAGGCAGGT ATAAAAAGAG TGATTTTCAT GTCTNGATAA 300
ATACCATNTN 310

SEQ ID NO:4762

LENGTH:364

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05652

SEQUENCE DESCRIPTION:

GATCCCCTCC AAGGAGCACC CATATNACGC CGCCAAGGAC TCCATCCTGC GCAGGGCCAG 60
GGGCATGTTT ACTGCCAAG ACCTGCGCTA GGGGACTCCT CATAGCCCTC AGCCCTTCCC 120
TCGTTTCCAG GCCTCTCCCC AGGCTTGCCA TCAGCCTTCT TTTCTTTTG AGCCTCTGAT 180
TTCCAATTCC CTGCTNCNNN CCACTCCATT AAGAGGCTAG GTGAGGCGCT TCTAGGTTGC 240
TGGGGCTCTG CTGGTTAAGG AACAGGAAGC CTGACCATCT CCCTCCACTA CCTCTTCCCT 300
GTGCTGTTAC ACAGTGTCAT TGTTGATGTT AAATTAAAGT CATATTCTTG CTCTTTCCG 360
NAAA 364

SEQ ID NO:4763

LENGTH:333

01468

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05653

SEQUENCE DESCRIPTION:

GATCGTCTGG AAGCAGCAGA GATGTACAGA AAAGCTGCTT GGGAAGCGTA TTTGAGTAGA 60
CTTGGTGTTT GAGTGCTTCA GATACATTTT TCAGATACAA TNTGAAGACA TTGAAGATAT 120
GTGGTCCTCC TGAAAGTCAC TGGCTGGAAA TAATCCAATN ATTCCTGCTT GGATTCTTCC 180
ACAGGGCCTG TGTAAGAATG GGTTCCTGGAG TTCTCATGGG NCTTTTAGGA AATATTGAGT 240
AATTTGGTAA NTCACCGNAT TGGTTACTAT ANATAAGGTC CCANTNCNTT AAGGCTTGAT 300
AAGGTGAATN GNGGTGNGNN NTNTGGGGGG AGN 333

SEQ ID NO:4764

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05654

SEQUENCE DESCRIPTION:

GATCCTCCAA AATTCAAACA AGGAAAAATC TCTCCCAATC TCTCCTTCC TCCATCCCTT 60
TTCTTTACTT CTCATCCCAT ATATAATATT ATATAANGCA TACGTAATAA AAGACATTCA 120
CTATTATTAA A 131

SEQ ID NO:4765

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05655

SEQUENCE DESCRIPTION:

GATCTCTTTT GCTATGGCTC ACATTATTTT CATAAAGTTG CTGGCCAGCT TTTACCTCTT 60
GCATATAATC TGTTGAAGAG GAATCTGTTT GCAGAAATTA TTGAGGAGCA TCTGGCAAAC 120
AGAAGTCAAG AGAACATAGA CCAACTTGCT GCATGAGTAA GGTGGCTTTG NTTGGTGTAC 180
AGTATTTCAA AGGACTAGTA TTAANCTTGT GATTNNGGTT TTGTTTTTAA GGGGTACANN 240
NNGTAAGCCA TTNCTTAAN AACCGTTGAA A 271

SEQ ID NO:4766

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05656

SEQUENCE DESCRIPTION:

GATCTTTCTC TTGAGTCATT TTATTTTAT CATGGACTAG TCGTGCTCC GTGTCCACCC 60
CAATAAAAGG GTCTTTCCTA CTTGAAA 87

SEQ ID NO:4767

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05657

SEQUENCE DESCRIPTION:

GATCTGGGCA ATTTTGGCCT TGACTCTTTC CTGGCTCCAG AGCTCAAGCT TAGANGCCAG 60
CCCTGCTATT TCCAGCCTCC TGAAGGCTCA GCACGGTGAG GCCTGACATC CTGGGGAAGG 120
GCAACAGGGA GACCTACAGG ATGNTGGCTG CTTGCAGACT GGTCAATGGG GGATGACGGT 180
GGGGAGGTTG NCAGATGTGA GACTTNGTA GCATTNGTA CACATGGCCC TGTAGTTGTC 240
CTTTGAAGA ACATCANTNA AAATATANGG GTNNTTAAAT TNTGGGNAAA AAN 293

SEQ ID NO:4768

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05658

SEQUENCE DESCRIPTION:

GATCTTGCTA GGGGAAGGCCA CCTTGTATGC CGTGCTGGTC AGTGCCTCG TGCTGATGGC 60
CATGGTCAAG AGAAAGGATT CCAGAGGCTA GCTCCAAAAC CATCCCAGGT CATTCTTCAT 120
CCTCACCCAG GATTCTCCTG TACCTGCTCC CAATCTGTGT TCCTAAAAGT GATTCTNACT 180
CTGCTTCTCA TCTCCTACTT ACATGAATAC TTNTNTCNGT TTTNTGTTT CCCTGAAGAT 240
TGAGCTCCCA ACCCCCAAGT ACGAAATAGG CTAAACCAAT AAAAAANTGT GTGGTTGGGG 300
CCTGGGGNGC AAA 313

SEQ ID NO:4769

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05659

SEQUENCE DESCRIPTION:

GATCCCCTCA TCACCCCTGT GCCCACTTCG GAGAACCNT TCCGGGAGAA GAAGTTCTTC 60
TGTGCTCTCC TCTGAGCTCC CCTGTCCCTT CTCACAACN CTCCCTTTTC CCTCTCCTGG 120
GCCCTTCCTT AGGTCAAGTAA TTGTTGTGAG CCCCTTAGGC TCCTTGCATC CCATCCCTAA 180
CCCTTGCCCTG ACCATGTGAG GTTATCTGAA GCACAAGNCC CACCCTNANG NNGNNTNTCG 240
ACCCGATTTC CTACCACCTT TTTTGGGCCG ANCCNAAGN 279

SEQ ID NO:4770

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05660

SEQUENCE DESCRIPTION:

GATCCATGTA ATCTGACGTC ATCTTGTCTC GAAGTCTCTT TTTTGGCCC AGGCCTTGAA 60
GAATACACTG TGAATAAGA AGCCTTACCA CGCAGTAACT AAAGCTTTAG GATGACTGTN 120
TTCGAGGAGT GCCGTGTGTT GCATGCAGCT ACCCGTAGGA AGACTTCGCG CATATCACTA 180
ATAAACCTGA AGTCGTGATG AAA 203

SEQ ID NO:4771

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05661

SEQUENCE DESCRIPTION:

GATCGTTGTG CTTTNTTNC TGTGTTGGTT GCCAGTTTAT AGTGCCAACA CGTGGCGCGC 60
CTTTAATGGC CCGNGTGCAC ACCNAGCACT CTCGGGTGCT CCNATCTCCT TN 112

SEQ ID NO:4772

LENGTH:291

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05662

SEQUENCE DESCRIPTION:

GATCTGGGAG GTGGAAGCCA GGCCAGAGGA CTTGGGGAAA ATNAGATGGA GGAAGGAAAA 60
AGGGAGAAGC TGAGCCACAG CTTAACTCCT ACAGAGTGAA ATNAAAACGG GCTGAAAATA 120
CCACCCAGG AGAGGACCTC GNCCCANGCA AGCCAGTGAG CAGCCCTGCC AGACTACTGN 180
CAGNCTGNGA AACCAGANG CTGGGTAGTC ATGTGGGGCT TGCCTTCTTT TGCCAAAACG 240
NCTGGGGGAA NCCAAAAATN GGGCCCCACC CTTNNTGTTT CTTTCCTTNG N 291

SEQ ID NO:4773

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05665

SEQUENCE DESCRIPTION:

GATCCCAGGC CTNTGGCTAG CAGCACTGAG GACAAGGAAA TGGNTGGTCC CCTTGAGTAG 60
GTCGTTACAA GGCTCAATGC CTGGTNGTCT TGGAGGGTAC TCGGAAATAA ATTGTAGCAG 120
CTTTCCTGCC AAA 133

SEQ ID NO:4774

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05667

SEQUENCE DESCRIPTION:

GATACCCAG CAGGAGTCGT GGCAGAACGG AGCATCAGCC AGACCCTGTT GTGGGCGTTG 60
TCATCAAGGG AGCTTGAATG GAGGGTCTGG TGTCAGATAC AGCCGACTCC AGCCCCAGCT 120
CATCCCCAT GATGCTGTGT GACCCACTGG GCACTCTGGT GAGGGAGCTT TCCAGACATC 180
AACAGCCCAC TCTGCTTCCC TTTCTGAGTC CCCTGTCCAG CACTGCCTAG TGTTGGAGGG 240
TAGACCAAGG CTGTGCATGA TTCACCCNT CCTTCCATCC TGGAGCTGGC AGTGAATAAA 300
AGCCCGTATT TACAAA 316

SEQ ID NO:4775

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05668

SEQUENCE DESCRIPTION:

GATCTCCAGA GACCCAAGTT TAGGTTCTCA TAGTGATTTT GAAGTAGTTA TACTCCTGGC 60
TTAAGTAGTT TAGTGCCTGG GAGAATCCAT TACTGAAAAG CATTAACTT AAA 113

SEQ ID NO:4776

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05669

SEQUENCE DESCRIPTION:

GATCTAACAA AAATGAAACA TGAAATGCAG TAGCAACCAC TAAAAAAAAA AATTCAAGGN 60
CATCTAACTN TTTCTCTCAC TTTNGCCCTT TGTTTATCCT TCCCTGTGAT TAGATAANCA 120
NAATAAAAN CAAAATGCTG TATTTCTCTN CTTACGN 157

SEQ ID NO:4777

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05671

SEQUENCE DESCRIPTION:

GATCACTTAG AGAAACAGGC CGTTAGGAAT CCATTCTCAC TGTGTTTCGCT CTAAACAAAA 60
CAGTGGTAGG TTANTGTGTT CAGAAGTCGC TGTCCTTACT ACTNTTGCGG AAGTATGGAA 120
GTCACANCTA CACAGNGANT TCTCAGCCTA CAAATTGTGN CTATACATNT CTAAGCCTTG 180
TTTGCAGNAT AAACAGGGCA TTTNGCAAAC TAAA 214

SEQ ID NO:4778

LENGTH:141

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05673

SEQUENCE DESCRIPTION:

GATCAGTTTN CAGCAGCAAG TACAAAAGGA GAAGAGGAAC ATCCGTTGAA TNAGTGTGTT 60
TTGTACATAA CTTCAGATAC TTGTNAACAT GCCTTATATT TGTCCAACAA CTGTCAGANT 120
AAAGAACATT CTAAATNAA A 141

SEQ ID NO:4779

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05674

SEQUENCE DESCRIPTION:

GATCTTGTGA AAACACNGTN TTNTCGACTA AAAATTCCAC TNTCTTCATC TNGTTGTGAA 60
GCTAAAAAGA GGGACTGTTA AATACAATGT ATGATACCAT GGCAAAAATC TTCCTGAAT 120
TGTCTTTNGT AAAAGTATTA TTGAATTTN CAAN 154

SEQ ID NO:4780

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05676

SEQUENCE DESCRIPTION:

GATCAAAATA GCTATTGCTA CAACATTTTC GAAAACAAAG TTGGGGCTGT ATTTCTTTAA 60
AAAGATAAGC CTCTAAAAAT GCTTGGCAAA AAAAATATAG TGTAAAAATA GGCCAGTGAT 120
ATTAATGAGA AAATGAAAGT ATGTATCAGG ANTAANGTGA TATTGCATAG GNGTATTGTA 180
TTTTNATGAA TTTNATGCCA GTTGTTTACA TGTACTATAT ATGTNAANTT ANNNNN 236

SEQ ID NO:4781

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05679

SEQUENCE DESCRIPTION:

GATCTCAGTT GCACGTGCAA ACAAATCCAA ATTCGAACAT TCTTAGGAGG TTTTNTTAA 60
GGCATGACAG ATGATNTAAA CAAATAAATA GCATGCAACA AAANGTCTTT ATTGNAAGAA 120
GTGGAAGTTA TCTTAATGCC ACGGNTCACC ANCAATTNAA AAGTANAN 168

SEQ ID NO:4782

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05680

SEQUENCE DESCRIPTION:

GATCAGTGAA CACTAACATT TTGGGGACAA CTTAGTCAAT TGGTTTTCCT TACAACAAAA 60
TAAAGTAAAA TGTAGCAAA 79

SEQ ID NO:4783

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05681

SEQUENCE DESCRIPTION:

GATCACCATT CAATTTGAGT TTCCAGGGGG AAGTGCATGT ATAATGNAAT GATAATGGAC 60
TTCAATGANG GATGTCATCA ATNATGNACA TATAGATNGC CTTATAN 107

SEQ ID NO:4784

LENGTH:319

01473

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05682

SEQUENCE DESCRIPTION:

GATCTAATAA GACACGTAAT AGATTAGAAG TAGGGAAATT AATGAAAAAG CAGAATTAAG 60
GATGACTTCT CACTGGCTTG AAATNCTAAA TGGATGACGG TGCTGTTTAG TGAGTTGGGG 120
AAGACTGGGC GTGGTGATGG GTGTAGAAAT TGAGAAAGGA AAATCAAGAN TTTCCAGAAC 180
TTTCAGAGCA ATGTAAATA CTTTCCTTGA TAGTGGGTCA GTCATCATTT ATAAGTGCAT 240
TTCTAAAAAT NTTGCTTAAT TTTNTTTTGG AGCTTTGTAT AAGTGGAATT TTGTGTGTAC 300
TGATTATNTT GCTCAATAN 319

SEQ ID NO:4785

LENGTH:78

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05683

SEQUENCE DESCRIPTION:

GATCTTTCAT CTGTGATTCT TATAAGAGCT TTGTCTTCAG AAAAATAAA AATAAAAGGC 60
ATTGACTTAA ACAGCAAA 78

SEQ ID NO:4786

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05684

SEQUENCE DESCRIPTION:

GATCAGTTGT AAGTTCATTT CTTTACAAAT AAAAGCCTCT TCCATTTGAA A 51

SEQ ID NO:4787

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05685

SEQUENCE DESCRIPTION:

GATCTTTTCC ATCTGAGGGT ACAGGAAGTA CCAGGACCTG TTTCAGTTTT TNAATCCTGC 60
AAGCACATTC CAAGACTGGC CTGAAACTGC ATGAGCAACA TCACTCGAAA TAATTTTTTT 120
TTTCAAANGC ACCTTAACAA CCANTTGCGA TGCTGTCCTG TTCCTTTTTA CTCACACCCT 180
TCTNTCCTTT CTCGTCCCNA TGCTCCACCA NCTCAGTGCT NTGTGCTGTA TCGGTGTGCT 240
CTCTGTTNTN GTATACTCAA TATANGTGNA ATAACTGGT GTTTTGTN 288

SEQ ID NO:4788

LENGTH:278

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05686

SEQUENCE DESCRIPTION:

GATCATGCAT GCAGTCATGT CTCCAGTATT CTGTGAAAAG CCAGGATACG TTAGGATGTG 60
 AGTTTAGAAA CTGAGTCCAT TCGGTGCATG GAAATNCACC GCGGAGTTAC ACAANGCTCC 120
 TCACTGTAGT CCAGGCGATT GGTNGGCCGC CACACCCTG CGGGCTTCAC AGGGACGCGT 180
 GCTTGTNCTC CAAGNCCCGN AACCCCTACT GTGCACACAN CATCNNACAC ACCTTTGTTT 240
 TTGAAATTAA AATGTTNATT AGTTNAAAAA AGGGNGGN 278

SEQ ID NO:4789

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05687

SEQUENCE DESCRIPTION:

GATCCCGGTG TGTGGCCAG CTTGTNCAGG CCCTGGNATG CTGCATCTCC AGGCAACTAT 60
 GCACTTTCCC GGGGAGAGAA CCAGTATGAG AAGTGGGGGC AGGGCACACA TTCATCTTTG 120
 TAGGAAGGTC TGGCCTGGGG TCGGTGAAG GAGGGCCCAG GTCAGTNCTG GGGTCCCAGT 180
 GACCTGCTTT GCCATTNTCC TGGTGCCGNT GCTGCTCCCT GTTCTGGAG CTGGATGTTN 240
 CCNAGCTGGC AGTTGAGCTG CCTGAGCCAA TNTAGTCTAG NCTTTGGTAA CTTGNGTGAA 300
 CCATAATAAN GGGGAACCAT TNTNGGCCTT GTGNAAA 337

SEQ ID NO:4790

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05688

SEQUENCE DESCRIPTION:

GATCACAAGG CTGCCTGCCT CAGTCTTGGA GTCCTGTTGG GTGAATNAGG CAGATGGGAA 60
 ANAGCCTCAC CAGCAGCTGC TTTTGGAGCA GGGGTCCAAG GAAGAGAGGG TGGCCTCGAC 120
 ATCAAAGTGC CTGGATTTT CTACCACCCT GTTACATCAT ACAAATTCT GAAACACACA 180
 CCAGCCCTGA GTTCTGGGCT CATTTGAAGC CTGGAATAGC AATAAATCTT TTAACTTGC 240
 GGACAGTTAA A 251

SEQ ID NO:4791

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05689

SEQUENCE DESCRIPTION:

GATCGAAGAT GTACAATGTT AAATGTNCAT ACCAGTTAAA CTGCACTTTC CCAAGGGGNC 60
 AGCTGGNATC TACTTGAAAT GGGNATCAAG AGACCACCAA ATGTTTACAG TTTCTGTGGC 120
 CCGTTTAAAGT GTAAATGCA GAAGTGCTC TGTCCCCCA GAGTTAAGGN TTTGCTACAC 180
 TGGTCTCTG GAAGCATTTA NGTAGAAGAA AAGGCTTATA GTCAGNNTCA CTTTAGTAA 240
 TCGTCTNCTG GTCCTTGGNC TNTTCTGGTT CTGTNANTGC TTGTAACCAA TGANTGATGG 300
 TGTGCCAAT CTNAGN 316

SEQ ID NO:4792

LENGTH:346

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05690

SEQUENCE DESCRIPTION:

GATCAGTCCT GTCATCCAGC TGCAGCCCAC CTTACACCCC ATGCGGGTCG CACTNGCTGG 60
CACATTCCAC TACTACAGCT GCGAGAGAGC CAAAAAGGCC ATGGGCTACC AGCCACTAGT 120
GACCATGGAT GATGCTATGG AGAGGACCGT GCAGAGCTTT NGCCACCTGC GGAGGGTCAA 180
GTGAGGGNCA CTNGNGGCTG GGCTCTCTNG ACACGTTGCT CAGCCAGTCA CTNCTTCCCC 240
TGNTGGATTG ATGAGNTAAC ATCCTTTNGA ATGGAGTTN GCTCTTTGCC TGTGACTCCT 300
TCTGCTAGGC AGNGGAGCGC ACCNTACTNT TTNCGTNGCG GTGNGN 346

SEQ ID NO:4793

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05692

SEQUENCE DESCRIPTION:

GATCCCAGGG ACTCATCCTG TGACTTTGTA ACCACACTCA TTCCTTTCAA ACACAGAGGA 60
GGAATTATTG CTTATCTGA CTTTATTCAA ATCTAGTTAT GTATTGGCCT AAATTATTG 120
TGCAAAATTT GAANNNNNT TTNATTAAA TATTAGAAAT AGCACAAAGT CATGGNGTTT 180
TTAANAN 187

SEQ ID NO:4794

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05693

SEQUENCE DESCRIPTION:

GATCTCAAGA GCCCTGTCAG TAGAGTAGAA GTCTCTTCCA GTTGCTTTG CCCTTCTTTC 60
TACCCTGCTG GGGAAAGTAC AACCTGAATA CCCTTTTCTN ACCAAAGAGA AGCAAAATCT 120
ACCAGGTCAG AATAGTGCCA CTAACGGTTG AGTTTTGACT GCTTGGAAGT GGAATCCTTT 180
CAGCAAGACT TCTCTTTGCC TCAAATAAAA AGTGCTTTTG TGAGCAAA 228

SEQ ID NO:4795

LENGTH:230

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05694

SEQUENCE DESCRIPTION:

GATCTGCTTA AAGTTTTAAC TTTTATACCT ATCTGAGTGA ATTACAGACA ACCTATCATT 60
NATNCTGCTN CGAGGGTCCC CAGGGCCCTT GTACAACCGA CAGNTCTTAC TTTTAAATGC 120
AATCTCTTGT CTACATACAT NATTTTCTTA ATTNCTTAGC TATTTATAGA AAGCTGCAAT 180
AGAACTGTNT CAACTGTATA ACTATTTACN ATTCANAATA NAANTATTTN 230

SEQ ID NO:4796

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05695

SEQUENCE DESCRIPTION:

GATCTCATTT GCTGAATGAT TGATTTAAGA GTAAAATTNG CCACTGCGTG CTTTTTGTAT 60
AGTAACCGGT TTTGTTGCAC TNGTCTGTGG CTGAAACACT TACCTGCAGT GGAANGCCGA 120
GCAAGGAGGA GGTAACATT GGAGATGTTT GTGAAAATAT TACTCTTGCT GTGAGGTTTT 180
AGTTTGTTTT GAATGAGAAA GGGGCTAAGT AACTTAATCC ATCTCAATGT AGTGTTTTAA 240
TAAAAANGGN GCCTAATATT TGAAATGGGG TCTCAGGNCA TGNTCTACAA ATNTGGGGNA 300
NCTATTTTNN ATGCCCCGTG TAATTTTNCA CCATTTTGNN NATGAGTTNA TTGTAGGGGT 360
CANNATN 367

SEQ ID NO:4797

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05696

SEQUENCE DESCRIPTION:

GATCTTTTCT CAGAGCGTCT CCATGCTATG GTTGCAATTC CGTTTTCTAT GAATNAATTT 60
GCATTCAATA AACAACCAGA CTCAGAAA 88

SEQ ID NO:4798

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05697

SEQUENCE DESCRIPTION:

GATCACAAGT GCAGCATTCC TTAATTCCTT CTGCTATATG TCACACAGTT GTTATTTGGA 60
GAACCAAGTA TGTATTGCAT GAAAACATTA TGACTTTTTT CTCTTAGTTT AAATAAACTC 120
CAAGGTAAGT GGAAGTCTAA AGCACCTTTC TGTTTGCTG ATATCTACTT TAGCAATAAT 180
TTTTTTTACA ACCCTCTGAC TCAACAAAGT AAATAAAAGT ATATTTTATC ACTATTAAA 239

SEQ ID NO:4799

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05701

SEQUENCE DESCRIPTION:

GATCTGGCCT TATGCCCAGG CCTGGGCCCT CAGAAAGCCC GGAGGCTGTT TGATGTCCTG 60
CACGAGCCCT TCTTGAAAGT ACCCTGATGA CCCCAGCTGN CAAGGAAACC CCCAGTGTA 120
TANTAAATCG TCCTCCCAGG CCAGGAAA 148

SEQ ID NO:4800

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05704

SEQUENCE DESCRIPTION:

GATCCTCAAC AGACACCTTC CTTGACTGAA AGTTTAAATC GTGATGCAGA GNCAGTCAGT 60
NATNTNCCGC CATCCACAGG AAATTCAGCA TCTTTATCTC TNCCACTN 109

SEQ ID NO:4801

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05707

SEQUENCE DESCRIPTION:

GATCAATTCA ATTAGATTAA AATNAAGAAC CTTGGGGCAG AGTTTGGGTT TTGTAAATN 60
AAAAGAGTTC TGGAGTTAAG CATCGTGAAC ATGCTTAACA CTA CTGAACT GTACACTCAT 120
TTTATAATAA AACTATTAAA TTGTAAA 147

SEQ ID NO:4802

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05708

SEQUENCE DESCRIPTION:

GATCTAATTT AAAATTCATT GGATTGAAAT NTATTGAATA TAATTCANCT TTTGTAAC TA 60
GGTAGACTTT NCTNATAGTT TAGTTTTAAT ATAGTTTAGG GTATTACTGG CTTTTCCCCA 120
GGTGACACAC TAAGGNCTGT TTACATGGCA ATTCCAGCAG CAACAGGNNG CTGGAATTNA 180
GACAAGGAAA GCTCATTTGT TTCTTTTATG AAGGTTAAAG AAGTCTACAG CTTGGGCTGG 240
CCGGTATT TAATTCTGT GGCCAGAGGA TTTTAAATTT NNCNCNAATN TTNTN 295

SEQ ID NO:4803

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05709

SEQUENCE DESCRIPTION:

GATCATGCCA CTGTCTCCA GCGTGGCAAC AGAGTGAGAT TCTGTCTCCA AA 52

SEQ ID NO:4804

LENGTH:374

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05710

SEQUENCE DESCRIPTION:

GATCAGATGG GGACACACAA CCCCTGGATA TGTTTCATTG TCAGATTTTG TGCTGNNATT 60
 TTAAGAATGG AATGGTGGGT ATCTTTCCTT TTTTAAATG TATCTTAACT GTTGCCTGTC 120
 AGTGNNNACA AACTAGTGC GGTGACGGCAC CGTGTCCAAG TTTTATAAGC CCTTGTTAGC 180
 CAGACCGAGG TGTCTGGTC ACCGTTTCAC CATCATGCTT TGATGTTCCC CTGTCTTTCC 240
 CTCTTCTGCT CTCAAGAGCA AAGGTTAATT TAAGGACAAA GATGAAGTCA CTGTAAACTA 300
 ATCTGTCATN GTTTTTACCT NCCTTTTCTT NTTTNAGNGC AGAGGTTAAA AGTAAGTATN 360
 AAGCACCCGT GAAA 374

SEQ ID NO:4805

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05711

SEQUENCE DESCRIPTION:

GATCTGACTG TGGAACATC CTCTCACTTG CATTCTTTTA ACTTAAACT ATTTAAGAAC 60
 TGATGTTCCG ATTATTGTAT ATATTNNCT AAAANCCAAA TAAAGCTACC TATGAAAATG 120
 AAA 123

SEQ ID NO:4806

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05714

SEQUENCE DESCRIPTION:

GATCAAACAG GAAATTGAAA GCCACTGNAA CTATGCAGCA TTTCAGTTTT CATTAAACA 60
 CTTAGTTCAG AAACCTTAAA GGATTTGANT ATTTCAAATT GCACACGTCA CTCCAGCATC 120
 TCTGTAANAT AATTGGAATG AANATACTTC TTGCACTTAA AACTGCACA TGCCGTNCTT 180
 TGCGGTTNGT CTGCATCTTG AACTTTAATA CCAANTTNT TTTGCATGCT TTTGTTTCCT 240
 ACGNGATAAT GGCATGTTTT CATATGTNAC TACTTTGGAC CAGTGTTTTT ANNATGGNN 299

SEQ ID NO:4807

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05715

SEQUENCE DESCRIPTION:

GATCTGGACA AATGACAGTA ACTGTTTCTA ACCTTGATTT TCTCATCTNT AAGATGCCAA 60
 TTGTAAGTCC TAAGNTACT GAGGATTTT TAAAATGCGT GTACAGTTCC TGACAGTGG 120
 TTTGTGCTA ATAATNATT ACAAATNATT ACCNAGTAAA ANCCTTGCGC CANGTGTGAN 180
 AACGTAAAGC TANTTAATCC ATNN 204

SEQ ID NO:4808

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05716

SEQUENCE DESCRIPTION:

GATCAAGCGA CCTTGAGAGC AGAGNACAAA TCCAGTGT GCTGATATAT GGCTTCTNCT 60
TCTCTTGTGT GTGCCTCAGC TCTGAAGNAG TTCCTGAGAA TGGGTACAG ATGTCATGTT 120
AGCTGGGAGT CTTCCACAT GTGGCACTTC AAAAGGCAGC ACCACTGGGC GCCTGCACTT 180
ATTTGAAAAT GGNACTTTGG GNGAAGTATC CCTGCTAGTG GCTCTGTAAC TTAACAGATG 240
TCANTTAGGC TTTTGTCAAT GTTGCCATCA TATNNANGCT AATGTNTACA TCCTTTTAAA 300
CANNTTNGNT ATGACAATTN CCTCAGGATT TNGGGTAAGN CTTCCCAN 348

SEQ ID NO:4809

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05718

SEQUENCE DESCRIPTION:

GATCCTCCTG CAGACCACGC CCGTCCTGCC TGTGGCGCCG TCTCCAGGGG CTGCTTCCTC 60
CTGGAAATTG ACGAGGGGTG TCTTGGGCAG AGCTGGCTCT GAGCGCCTCC ATCCAAGGCC 120
AGGTCTCCG TTAGCTCCTA TGGCCCCACC CTGGGCCCTG GGCTGGAATC AGGAATATTT 180
TCCAAGAGT GATAGTCTTT TGCTTTTGGC AAAACTCTAC TTAATCCAAT GGGTTTTTCC 240
CTGTACAGTA GATTTTCCAA ATGTAATAAA CTTTANTATA NAGTAAA 287

SEQ ID NO:4810

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05719

SEQUENCE DESCRIPTION:

GATCACCACC CCGAGCCCTC TNATCCTCTA TGGNTTCACT CCCATCATGA TTTGGAATTA 60
TTTATTTGTG AACTTGATTA GCCGAGATTG TAAATNACAT GAGGTCAGGG ACTGGACTGG 120
GTATGTTTTT TTCTCTGTTG CTTTCCTGGC ATGAAGTACA GTAAATACAG CACCTGATAC 180
ATTATACATG GCCACAAATA TTTGTTGAAT GAATGANTAA AAGCACATTG GGTCTGACC 240
ATTCAGTGTC CCTGNAANGA ATGCAGTTTT TCAAACCTGT GCNTCACCAT CCATTAGCGG 300
GNGTGTGAAT CCAATTTAGG TNGGTGATGT CTAGCATTNN AN 342

SEQ ID NO:4811

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05720

SEQUENCE DESCRIPTION:

GATCATTAAC CAGAGTACCT CTA CTCTTAG CAAACTCTAG TTTATGACAA GTATTTAAAA 60
TATTTAAAC AAGCTTATGC AGTTCTTAAG GNCGNAGGTA AATGAGATGT ANCTTAAAAA 120
TAGTATTGGG AAAATGTTGA TAGTTAACAT TAGTGGATT AGACTAGCCA AATGACATAG 180
TAGGCTCTGA AACATCTTGT CAAGTNTATG TTTTTGTGC ATGANTTTTT GCTGGAAAGC 240
TGTCTTTCTC TGA AAAACAC ANCGTTCTTA GACTGNNANG CCANTTATAA CNTAANN CN 299

SEQ ID NO:4812

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05721

SEQUENCE DESCRIPTION:

GATCTTNATG CCCAACATTG GTTATGGAAG CAACAAAAAA ACAAAGCACA TGCTGCCCAG 60
TGGCTTCCGG AAGTNCCTGG TCCACAACGT CAAGGAGCTG GAAGTGCTGC TGATGTGCAA 120
CAAATCTTAC TGTGCCGAGA TTGCTCACA TTTTNNNGTC CAAGANCCGC AAAGCCATCG 180
TGGAAAGAGC TGCCCAACTG GCCATCAGAG TCACCAACCC CAATGCCAGG CTGCGCAGTG 240
AAGAAAATGA GTAGGCAGCT CATGTGCACG TTTTCTGTT AANTAANTGT AAAANCTGCC 300
ANANAAANTN 310

SEQ ID NO:4813

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05722

SEQUENCE DESCRIPTION:

GATCCCTTTT CTTTGATGG ACCAGAAATN ATGGGTTGTA CAGGGTGCCA GATAGATTGG 60
AAA 63

SEQ ID NO:4814

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05723

SEQUENCE DESCRIPTION:

GATCCCAGTG CTCTACTGGG GGATGAGAGA AAGGCATTTT ATAGCCTGGG CATAAGTGAA 60
ATCAGCAGAG CTCTGGGTGG ATGTGTAGAA GGCATTCAA AATGCATAAN CCTGTTACAA 120
TGTTAAA 127

SEQ ID NO:4815

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05724

SEQUENCE DESCRIPTION:

GATCGAATAC AGATGACCCT GCTGTCGTGT CTTCAATTTGT AAAATNCTCC TACAAATGGA 60
GACATTGAAG GATTATGTGT ATGGAAATNT TTACAAAATT CCTTTCTGTA CCTATTCTGT 120
AGATGCCTGT ATAATCGGNC TGGATGTACA GCTATAAATG TGTGTGAGA GCAAGAGAGA 180
GAGAATGGGT AGAGCCTGCT GTACCTTTTT CCTTTTAAAT TCTTCGAGTT GGTAAATGAG 240
TAAGATATTG GAAACCTTAA TGNAAGCTG CTGTTTCATGN TTTGTGTGTA TAGTGAGCTG 300
CCTGTAGTAT TTNNCTATTG TCTGNTAAAA AAAGNAAANC CTGTAAACN 350

SEQ ID NO:4816

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05725

SEQUENCE DESCRIPTION:

GATCTTGAAC AAAGNCACTT AGTTNCCCTG GGCCTTGGTG TCTTTCGTCT ATAAAATATT 60
GTACCAGATT ATCTCTGAAA TCACTNCAAG GTTTAATATA TATANTTATC AATATTTTAA 120
AATTCAAGCA ATATTCACCTT TAGANATTAT TATAACATTC TATANTNGTN GGGGGGGN 178

SEQ ID NO:4817

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05726

SEQUENCE DESCRIPTION:

GATCGAATCG GGACATNATG GGAGCTGACA AATTTATATT CTNTTCAAT NATTTTAATC 60
CCACTTCACT GTGAGGGGAA GGCCTTTTCA CGGGAACCTCT CCAAATATTA TTCAAGTGCC 120
AAA 123

SEQ ID NO:4818

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05727

SEQUENCE DESCRIPTION:

GATCCCAAAT TTGTCCATAG CTGAAGTCCA CCATAAAGTG GATTACTTT TTTCTTTAA 60
A 61

SEQ ID NO:4819

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05729

SEQUENCE DESCRIPTION:

GATCTATAGA ATTAGATTTN NTTATATCTA AAGAAATATA TATAAATACA TAAACGTAGG 60
TATGTATAGC ATGANCAGAA TACAGTGCTA TTTGACCATT GTCACAAGAC TTATTTATAA 120
AACCTCCTCA AGCTCTTGCC AATATCTTAG TTAAGNTTGC ATCTAAGGTG GCGGNGGAT 180
GNNGATTGAG GCACTGTCAG GTCATGNTTG ATTACCTGGG TGACAAANATT ATGTTTACAC 240
CAAACCCCA TGNCACACAG TTTACCCATG TGACANNACN TNCACATGTC CN 292

SEQ ID NO:4820

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05730

SEQUENCE DESCRIPTION:

GATCCCCCAT ATACTCTGCT ACAGCTCCTA TCATGAAAAA TAAAATGTTT GTCTTTGCAA 60
A 61

SEQ ID NO:4821

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05731

SEQUENCE DESCRIPTION:

GATCCGNTGG GGTGAAAGCA GCCAGCTCAT CCCAGTAACT CACAGGACAC AGCCATCCAG 60
CGGCATCTTT CTTGTGCGAA TGATACTGTA ATNACCTTCC AAAGTNAAGA GTAGCACATT 120
AAAGTNATTT TATTGTTAAA 140

SEQ ID NO:4822

LENGTH:309

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05732

SEQUENCE DESCRIPTION:

GATCTCAATG CTGTCTGGGG ACCCTAAGAG TTNCTNACC TGTNCAGTCT CATCTAACCT 60
TCCAATGTCT GATGTTCTTG CCAAATTCCT GCCTGATTCT GGGTCCGTCC TGACCTCCAA 120
AGGTCAGCTT GGTGCTTGAG GTCTCCCTGC TCTTGGTGGC AGTGGTAGCA GCAACAGCAG 180
CAGCAGCAGC AGCAGCAGCA GCAGCGNCCT CTCCACTTTN CCTTNGCCCN TCTNCTGGGT 240
AGAGAGGCAC TTTCAGGGAC TTTCCTCCAG GNTGGNTCNT CAATATGGGA ATGNGCTNTG 300
NAAGGNTTN 309

SEQ ID NO:4823

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05733

SEQUENCE DESCRIPTION:

GATCCTCCTG GCGGCAGTAG CCTTGACAAG GGCCACCTCT TCACAGGATG CAGTCTGTCT 60
GTGCACCAAA CTCTTCACCA AATAGAACAC TTGTGTCTCT CTGTGGAAA 109

SEQ ID NO:4824

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05734

SEQUENCE DESCRIPTION:

GATCCATTTG GNAGGAAATG AGAGGGCTGT NATCAGCTCT NATTAAGAAA GGAGATTCT 60

TCATGCTTTC GATTCTGCAT GGGGTACAGC CAGTCACCTC ACCAGAGANT GACGGCTGGA 120
GAAGTNAACT CTGTAATACC ATAAATAAGA GTGCTTGTA TAAAAGNCTG TGCACANGGA 180
TTAATATTTC CCNTCTTAAG TATCAAACGA CCTCTGGANC AAATTNTACC NTN 233

SEQ ID NO:4825

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05735

SEQUENCE DESCRIPTION:

GATCTGACGT TTTCTACGTA GCTTTTGTAT TTNTTTTTTT TTTAAANTTG AAGGACCACT 60
GATGAAGCCC TNCCANACCC CTCCCGGGTC TAANAAAACG TN 102

SEQ ID NO:4826

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05736

SEQUENCE DESCRIPTION:

GATCAAGAAA TNTCTCTNCT CCTACATCCA GCTCCTCTAG GGGCAGCCTC CGTCATCCAT 60
GCCCTCCCAG GACCCTCCAC TCACTGCTGT GAGTGCGCCT CACCAGAACC AGTTAAGAGA 120
CAACTATCAA TTNNGGGGAC CCAAATTATA AGGGCCCTGN CCTGTACTGA AGNAAAGGGG 180
NGCACAAGGC CTTAATGGAC ATTGNCTTGT GAAAACGCAN ACATGAATAT GGTGGAGAG 240
CNTGGCTTAG GAGGGTGTCA TGGGGNAGNA GNGGCTN 277

SEQ ID NO:4827

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05738

SEQUENCE DESCRIPTION:

GATCCCCTCT CCTGCCAAG CACTTCACAG CTGGACCCTG CTTACCCTC ACCCCCCTCC 60
TGGCAATCAA TACAGCTTCA TTATCTGAGT TGCATAAA 98

SEQ ID NO:4828

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05741

SEQUENCE DESCRIPTION:

GATCTGGGAT TTTNTTTTTA TTTTGAAATG GGAGCTTTTT TGTTTACAAG TTCATTAAAA 60
ACTAAAAACT GTTCTGTAA A 81

SEQ ID NO:4829

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05742

SEQUENCE DESCRIPTION:

GATCGATTTC TTTCTCCAG GTAGAGTTTT CTTTGCTTAT GTTGAATTCC ATTGCCTCTT 60
TTCTCATCAC AGAAGTGATG TTGGAATCGT TTCTTTTGTT TGTCTGATT ATGGTTTTTT 120
TTAAGTATAA ACAAAGTTT TTAATTAGCA TTCTGAAAGA NGGAAAGTAA AATGTACANG 180
TTTANTAAAA NGGGGCCTTC CCCTTTAGAC TAANTTTCAG CATGTGCTTT CAAA 234

SEQ ID NO:4830

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05743

SEQUENCE DESCRIPTION:

GATCCACCCA CCTCAGCCTC CCAAAGTNCT GGGATTACAG NCATGAGCCA CCATGCTCAG 60
NCGTGTGTGT NTGTGTGTAT TATTTATATG TATATGCATA CTATATACAT NTATATATAC 120
ACTATATAAA 130

SEQ ID NO:4831

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05747

SEQUENCE DESCRIPTION:

GATCTTTAAT CAAGCACTAT GTTAATACTG TAATATCAGA ATACTATGTT GCATTATTTA 60
AAATGTTCAA ATTGAATAGN TTAAAANGTT TTAAATNCT AAA 103

SEQ ID NO:4832

LENGTH:325

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05748

SEQUENCE DESCRIPTION:

GATCCTTGGT GCTGTGTGCC CCACTCCAGT CTGGGGACCC CACTTCANAA GGTAGGGGCC 60
GTGTCCCGCG GTGCTGACTG AGGCCTGCTT CCCCCTCCCC CTNCTGCTGT GCTGGAATTC 120
CACAGGGACC AGGGCCACCG CAGNGGACTG TNTCAGAAGA CTTGATTTTT CCGTCCCTTT 180
TTCTCCACAC TCCACTGACA AACGTCCCCA GCGGTTTCCA CTTGTGGGCT TNAGGTGTTT 240
TCAAGCACAA CCNACCACAA CAAGCAAGTG NATTTTAAGG GGGTTGTGCT TTTTGTGTTN 300
GTGCTAACGT CTNACTAATT TTAAN 325

SEQ ID NO:4833

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

01485

CLONE:HUMGS05749

SEQUENCE DESCRIPTION:

GATCTGAAGA GAAGCCAGAG TATAATTTNC TACTATTTTC AATACAAAGN TGTGTTTTCA 60
TTACAATTAG NGGAATATAG GCTTCTGTGA GCTAGCCTGG AAGCAAACAT AATCATTATT 120
GTNCATTGTT TCTGTGNAN ACTGTAATGC TGTTTCTAAA TATTGACCTA ACANTAAACT 180
CTGNGGAATT CATGCTTGTN ACTGGNTGGA AN 212

SEQ ID NO:4834

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05751

SEQUENCE DESCRIPTION:

GATCTGGCCT TATGCCCAGG CCTGGGCCCT CAGAAAGTAA GAGCTCTGGG AAAGAACCCA 60
AGGAGTTGGG GGAAGGAGAG AGCCCCAAAT AAACACAACC TGAGACCCA AAGTTTAAAG 120
GTGNAAAANG NACCAAAGAC CAGNCACAGT GGCTTCCGCC TGTAATCCA NCATTTGGG 180
NGGCAAGGC GGGAGGACTG CTTGAGGCCA GAAGTTGGNG ACCATGCCTG GGCANCGTGG 240
NCACCTCATT TTTACTACAA ATNAAANAAN CTTGCTGNG TAAA 284

SEQ ID NO:4835

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05752

SEQUENCE DESCRIPTION:

GATCCTACTG ATGAAATTCC CACTAAAAAG TCAAAGAAGC ATAAAAAGCA CAAAAACAAA 60

SEQ ID NO:4836

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05754

SEQUENCE DESCRIPTION:

GATCAAAAAA TTGAATGATA AATATGAATG GCTTTTCAAT TCTGTGGACT TTGTACCATT 60
TGGCTTCACC TTGTACTGCA AGATGAATTT GTAAACAAAA CAAAATTGGN CTGTCTGGAA 120
AGCTAAAGTN CTGAAATATG GAAA 144

SEQ ID NO:4837

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05755

SEQUENCE DESCRIPTION:

GATCACAATG ANGGCCAAGC TTGCNCGCNT AGAGGCCAG GAGCAGGCCT TCCTGGCTCG 60
TTTCAAAGGC CAGGACCCTG GGGCCCTCA ACTGCAGTCA GAGAGCAAAG CCCTTAATAA 120

ATATTTNACA TCCTTAAA

138

SEQ ID NO:4838

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05756

SEQUENCE DESCRIPTION:

GATCTTGTTT ACATCTTGCT CACTGCTATA TTCTCATTGC TGAGCACACA GTTGCAGCTC 60
AATAAATTTT GAATGAACTC CAAA 84

SEQ ID NO:4839

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05757

SEQUENCE DESCRIPTION:

GATCACCTNA TGGATGTCGC AATAATACAA ACCAGTGTAC CNCTGACCTN NTCATCAAGA 60
GAGCTGGGGT GCTTTGAAGA TAATCCCTAC CCCNCTCCCC CAAATGCAGC TGAN 114

SEQ ID NO:4840

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05758

SEQUENCE DESCRIPTION:

GATCTGCACT ATNAACTTTG TGAAGAGTTT CTCCTAAAAA CTTTAAGTAA AATGTTAATG 60
GTAGCTTTGA TAACATCAAA TTCTAAGGGA GAAAAAACA ATATTAAACC GCCCAAGCAG 120
TGTGCCCTAG CAGAGGAAAA TGCAACATCT CGCAAGCGCT GCTGTAACGC CTTCAGGAGT 180
CACTGATTCA GCACTAGTTT CCGGCTGTGA AAACATCATCT TTCATTTTNN CCGTGGNTNG 240
GCGCTTTTNT TANTNGTNGT CCTAATGANA TTTCTGNCAT TGTCATATAC AANCGNTGAA 300
TATCATTAAA ANTTTTTNAN TNN 323

SEQ ID NO:4841

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05759

SEQUENCE DESCRIPTION:

GATCAAAAAA ACGTTCTTTG AAGAGCTGGC AGTAGAAGAT AAACAGGCTG GGGAAGAAGA 60
GAAAGTNCTC AAGGNGANGG AGCAGCAGCA GCAGCAACAG CAACAGCAGC AGCAANANAN 120
N 121

SEQ ID NO:4842

LENGTH:351

01487

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05763

SEQUENCE DESCRIPTION:

GATCTTCACC AGCTGCTCGT GGTGGCTCGG TGTCTGTCTC TCAGTGCTGG TCAGACAACG 60
CTGTCAAGAG ANCGATGGCT GAGAGCAAAG CAGCTAGAGT CTTAAGAAG AACGAGGCTT 120
CAGCAGCAAA AATGTGTGAA TGGAAATNAA CTTTAAAGAT GTAATACCTA TGAAGAGTAA 180
TGGGCAAACCT GTAGCCACAT AATTGTAAAA TTCAGATATT CATTATACC ACATTGTTTT 240
ATAGGTAATT TCTATCACA ACCAGTGACA TTTCTGAAA TCANGCCTGG TAACACCTGA 300
TGTTTATATG ATATTCAGTA AGGACTTTTA CTTACTGAT TTCATGGNGN N 351

SEQ ID NO:4843

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05765

SEQUENCE DESCRIPTION:

GATCTGAATT TCCCATGCT TCCTGGTTTT NATATGTTTC TTGACAAATA AAGCTGATTT 60
AAATCTCTAA A 71

SEQ ID NO:4844

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05767

SEQUENCE DESCRIPTION:

GATCTTTTTT TTTATCTCCC TTCCCCTTCC TAAGTCCCAT TTCTTGGTCA TAAATATTGC 60
ATTATTACACA CTTTCAAACCT GTGTATTTTC TTACAATAAA AAATGATGAA A 111

SEQ ID NO:4845

LENGTH:202

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05768

SEQUENCE DESCRIPTION:

GATCTCACCA CCCACCTGGC CTCGCAGGGC GTTCATCTCC TCCTCGTGGT TCTTCTTCAG 60
GTAGGCCAGC TCCTCCTTGA GGTTCCTCAAT CTGCATCTCC AGGTCGGCTC TGGCCAGGGT 120
CAGCTCATCC AGCACCCTGC TTCAGTCCCT TCCCCATGCT TCCTTGCCCTG ATGACAATAA 180
AGCTTGTTGA CTCAGCTATA AA 202

SEQ ID NO:4846

LENGTH:262

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05769

01488

SEQUENCE DESCRIPTION:

GATCANAACC CTAGCGCCTT TGGTCCTAAG AATGGNAGGC TGCCTTCNT CCCAATCTCC 60
 CTGCCAGGGC CCACAGCGTG GCCCTAGCCC TCCCCTCCCC GGAATGTAGA ACGGGGACCC 120
 TCGCAGGGTT GGGGCGGGG CTGATACTCC TNGGNCCCTC CCTACCCTGC CCTGTGTGTT 180
 GGCTTTNTGG CCGTCCAAGT GCCAATTGGG TTTTNGCCCA AATAAGGGCT GGTATTTNTN 240
 CTNTGTNCTT GGAGGTGNGN TN 262

SEQ ID NO:4847

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05770

SEQUENCE DESCRIPTION:

GATCTGTATG TNAGGCACCC ATAACAGTAG TTTTCCCTGT NAGTCGTCTT CACACATGCT 60
 GTTTTCTCTG CCTGGCTCTC TCTTCCCTC CTTACCTGGC CAGTCCTGTT TATCATCAGG 120
 CCTTGTNTTG GATATNACGT CCTCTGGGAA GTCTTCTGGG NCCCTCTAAC CTAGGACCCT 180
 CATTACCGGN TCTCATAGNA CAGTCTACTG NTTTGTACGG AATTCTAAGT ATTCNNGTG 240
 GNACTNAATN 250

SEQ ID NO:4848

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05772

SEQUENCE DESCRIPTION:

GATCATTCTT CAATTAGGAC ACAAACCAGA CAGGTTTAAT AGCGAATCTA ATTTTNAATT 60
 CTGACCATGG ATACCCATCA CTTTGGCATT CAGTGCTACA TGTGTATTTN ATATAAAANT 120
 CCCATTTCTT GANGATAAAA AAATTGTNAT TCAAATTGTT ATGCACAGAA TGTTTTTGGT 180
 AATATTAATT TCCACTAAAA ANTTAANTGT NTTTTAAGGG ANNNGAN 227

SEQ ID NO:4849

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05773

SEQUENCE DESCRIPTION:

GATCTAAATA TAAGAGCAAA AACCATAAAG CATCTAAAAG TAATTGAAGG AGAAAATCTT 60
 AGTGCCTTTT GTNCTGGCCA AGATTTTSTA AAGAGGACAT AGAAGTCAGG AACTATAAAA 120
 GAAACAATTT TAAATTTTNC TTTATCAAAA TAAAAGCCA TAGACCGGGA TAANNCATTT 180
 GCAANATATA TNTCTGACAA AGTTCTTGAN TCAAGANTAT GTAANANCNG N 231

SEQ ID NO:4850

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05774

SEQUENCE DESCRIPTION:

GATCAGCCTG AACAAACATAA TAAGACCCTG TCTCAACAAA AAATACAAAA ATTAGCTGGG 60
TGTGGTGGCA TATGCCTGTA GTCCCAGCTA TTCAGGAAGC TCCATTGCAA TCTAGCCCCG 120
GTGACAAA 128

SEQ ID NO:4851

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05775

SEQUENCE DESCRIPTION:

GATCCTTCCT TCAACCCCAA GGCCAGCTCC CATCTCATTT CCAGAAAGGC TCATACCTGG 60
CTTGCAAGGA AGCATCTGTC TTGTCATTCC AGGTGCCAGA ATCCTCTCAG AGTCATTGAA 120
GGGTGTTTAC CCATCCCACC CAAGGCTTGG CACTTGCCA GTNTCTTAGC AGGGTCTTGT 180
GAGGGCTGGG GGCATCCAGG CACTCAGAAG GCAAAGGAAC CACCCTACCC ATTTGGCCTC 240
TGGAGGGGGC AGAAGAAAGA AAGAAACCTC ATCCTATATT TTNCAAAGCA TGGGGGTTCT 300
NGCATTTAGC TCTGGNGGGT GANCCANTGT GCTTNCTTGN TTAAGTGTCN 350

SEQ ID NO:4852

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05776

SEQUENCE DESCRIPTION:

GATCTCAGTT TCCCTCACTC AGGAACTCTG TTTCTAAAGT CTTCACTTAA GTTTNAGTTT 60
ATNACTGAGT GGCCTGTACT GTCAGACGTG AATGGGCCTG ACGGGCAAAT CCATCCCTCT 120
CTCCCTCACA GTTCCAGGAG CGGCTTCCCT CGTCTCCCCT TACTCCACAG GGAGCCTCCC 180
TTGCCAGGAC CAGGGCTGCG ACGGCCATGC TGGGGCAGGT GAGTGCTCTG TTAGCTGCTC 240
CCAGTGCTGT CCNCAGGCTG CAGTTCTGGT CCNNGGGGTG TNAGGGTAGG GAAGGGTGCA 300
CTTGAAGGAN GGTGGTTCAA TTTGGGNTN CCTTAACGTT TATAGTCTNN ACAAN 355

SEQ ID NO:4853

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05777

SEQUENCE DESCRIPTION:

GATCCAGGAG TTTAAGGTTA CAGTGAGCTA TGACCGCTAC TNACTCCAG CCCAGNCAAC 60
AGAACAAGAC CCTGTTTCAA A 81

SEQ ID NO:4854

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05778

SEQUENCE DESCRIPTION:

GATCCTCCGT AACATTNCNA GACCAGANAG AACATCCAGA AATCCCTGGN TGGAAGCTCA 60
GGCCCCGGGG CCTCCAGCGG CACCAGCGGA GACCACGGTN AGCTCGTCGT CCGGATTGCN 120
ACGATTAAAG ACTGAN 136

SEQ ID NO:4855

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05779

SEQUENCE DESCRIPTION:

GATCAAAATAT TTTTNATTAA CCTATATAAA GAATTTGACT GCTTATGATT CAATACATAT 60
GATTTAATAA AATAGATTGC ATTTTNNAAA ATAAAGAATG ATTNAAAA 108

SEQ ID NO:4856

LENGTH:362

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05780

SEQUENCE DESCRIPTION:

GATCAACCTC TGATTTTACA TCATGATGTA ATCACCCTG GAGCTTCACT GTTACTAAAT 60
NATTAATTTT TGCTCTCAG GTTCTATCT CTGAGGCTGA GCATTATAAG AAAATNACCT 120
CTGCTCCTTT NCATTGCAGA AAATTGCCAG GGGCTTATTT CAGAACAAC TCCACTTACT 180
TNCCACTGGC TCTNAACTC TCTAACTTAT ANGTGTTGGT GAACCCNCAC CCAGGCAGTT 240
ATCCATGAAA GNACAAGTGG ACTAGTNCTA TGNNGTACAA AGGCCTGTAT CNTCTTGTNG 300
ATGGATTTC TGGTGCTCTT NGCTTGTGTTG CAAGTTGCTT AANTTAAAGG CAGNTNTTTN 360
TN 362

SEQ ID NO:4857

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05781

SEQUENCE DESCRIPTION:

GATCCTACCG GAAACCAACC TGTTTACTGT ACTGTTGTAA ATATCATGCC CTTTATATCC 60
TGATATTGG CTTCTTTTAA ATAAAGTGAA ATGTCTTAGA AA 102

SEQ ID NO:4858

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05782

SEQUENCE DESCRIPTION:

GATCTAACT TTATGCTGCA TAAATCACTT ATCGGAAATN CACATTTTCAT AGTGTGAAGC 60

ACTCAANN TN TAAACCTTAT TATCTAAGGT AATATATGCA CCTTTCAGAA ATTTNTTTTC 120
GAGTAAGTAA AGCATATTAG AATAATTGTG GGTGACAGA TTTTAAAAT AGANTTTAGA 180
GTATTTGGGG TTTTN 195

SEQ ID NO:4859

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05783

SEQUENCE DESCRIPTION:

GATCCCTTTG AAATNTTTT TTTGTTTGT TGTTTAAATC AAGCCTGAGG CTGGTGAACA 60
GTAGCTACAC ACCCATATTG TGTGTTCTGT GAATGCTAGC TCTCTNGAAT TTGGATATTG 120
GTTATTTTT ATAGAGTGTA AACCAAGTTT TATATTCTGC AATGCGANCA GGTACCTATC 180
TGTTTCTAAA TAAANCTGTT TACATTCAAA 210

SEQ ID NO:4860

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05784

SEQUENCE DESCRIPTION:

GATCTTTGTT TGTCTGAACA GGTATTTTTA TACATGCTTT TTGTAAACCA AAAACTTTTA 60
AATTTCTTCA GGTTTCTAA CATGCTTACC ACTGGGCTAC TGTAATGNG AAAAGNATAA 120
ANTTATTTAA TGTTTAAA 139

SEQ ID NO:4861

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05785

SEQUENCE DESCRIPTION:

GATCCTGAAA GAATAATTGG TGCCACAGAC AGCAGTGGAG AATTGATGTT TCTCATGAAA 60
TGAAAAGNTT CAGATGNNGC AGACTTGGTG CTGGCGAAAG AGGCAAATAT GANGTGTCCT 120
CAAATTGTAA TTGCTTTTTA TGNNGNGNGN 150

SEQ ID NO:4862

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05787

SEQUENCE DESCRIPTION:

GATCGCAGAT TTNTNTAGAA ACACGGATGT NCATGTCCAG ATTCCCTTTT NCAGGTATTA 60
AAAATAATTA AAAATAGTCC TGCCTGAGGT TGCAGTGAGC CGAGCTTGCA CACTGCACT 120
CCAGCCTGGG TGACAGAGTA AGACTCCATG TCAAA 155

SEQ ID NO:4863

LENGTH:262

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05789

SEQUENCE DESCRIPTION:

GATCTGTACA ACTGATTTTA AAAAAATGCT AAAAAAGCC CCAAAGCATA TAATCTCTAC 60
TCCTTACAGT CTCTAGAATT AAATGTACTC ATTTAGACAA CATATTAAAT GCATATTNA 120
GCCACTTTAG AGAAACCTCA TAGGCACAGA GTTTCCAAGN TTAATTTTAA GNATATCTTC 180
ACGAACTGA CCCTCCTACT CCACATTGCA NCATTTCCNT CAGNCAGCAT TTNAATTCCN 240
GTATTATGTN TNTNGCAANT NN 262

SEQ ID NO:4864

LENGTH:232

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05790

SEQUENCE DESCRIPTION:

GATCAAGAAG GCCACTGGTG TGCAGGTGTN AGGCTCCTAC AGGCCCACTC TCTTCAGCAG 60
CCACCCGGCC CTCCCTCCAG CACCCGTTTT AATCCACAG AACACGGGA ACGTTACTGA 120
CTCTGGTGCC TTATCTCGAA GGGACCAGAA GTGCTGCGTG TTCAGGCCAT CNNTGGCTGT 180
NTCCTGTCT CTCCTGTCTG TCCACCTACT ACTNNNTNCT NTACTTTANC NN 232

SEQ ID NO:4865

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05792

SEQUENCE DESCRIPTION:

GATCAGAGCC GACACCAGAC GTGATTAGCA GGCGCACAAN ATTCAATTTG TTAAATGAAA 60
TTGTATTTTG CCCAAA 76

SEQ ID NO:4866

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05793

SEQUENCE DESCRIPTION:

GATCTCTTGG GCCCAGGACT GTTGATGCCT TTNAGTTTTG TATTCAATAA ACTTTTTTTG 60
TCTGTTGATA ATATTTTAAA 80

SEQ ID NO:4867

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05794

SEQUENCE DESCRIPTION:

GATCCATGCA TTATTTTCCT AGCTTCCTGC CTTGCTCCCT ATTCACCTTA CACTGTGAAA 60
GGTGGGGGGT GAGTCCCACT TGAGCGCTTC CTGTTGAATA AAGCAGGCAC TTGACCTGGC 120
TGTAGCCTAG GTCTTGAGTG AACCCCAAA 149

SEQ ID NO:4868

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05795

SEQUENCE DESCRIPTION:

GATCATGTCT GTACATTGTG TAATGAATGA AAAGCACATA AATNTAATCT ACTTTGAACT 60
TTGTAAAAAT AATGTGTGGA GGCTATTCTT GTTTCTCCAT CTCAAGTCCT GTGTGTGCAC 120
GTGTGTGCAA GTGCACATGT GTGTGTGTAA TAACACATTG TAAAGANCAG AAATNACTTT 180
AAAAAATAAA CAGAAATGGA GACCTGAAA 209

SEQ ID NO:4869

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05796

SEQUENCE DESCRIPTION:

GATCCGNCCA CCTTGACCTC TCAAAGTGCT GGGATTACAG GCATGAGCCA TCACGCCCGG 60
CCACGCTGTT GGTCTTAAT GACACAGCTT ANCTTTATTG TGAAAAGATT GCAGCAACAA 120
ATGAGATTTT ACCTGTATTT GTTAAAAATG CTTATCCTTG TCTAAGACTG GCAACATAAG 180
CAGTTCTTNG GCTTCTATGC CAATGGNCAC TAGGCAGTAA TACATGTGCA GTGCTANATA 240
GAAAATATTG GAGTNAGGGT GACTNAGGG AAGTTCTCAA TCTTNCCCT NTCANTNTCT 300
TCTGTAATAG TAACCTTNA TAACATGNNG ATTCN 335

SEQ ID NO:4870

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05797

SEQUENCE DESCRIPTION:

GATCTTTCTG CAGGAAATAG TCACTCATCC CACTCCACAT AAGGGGTTTA GTAAGAGAAG 60
TCTGTCTGTC TGATGATGGA TAGGGGGCAA ATCTTTTTC CCTTTCTGTT AATAGTCATC 120
ACATTTCTAT GCCAACAGG AACAATCCAT AACTTTAGTC TTAATGTACA CATTGCATTT 180
TGATAAAATT AATTTTGTG TTTCAAA 207

SEQ ID NO:4871

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05798

SEQUENCE DESCRIPTION:

GATCTGTCAC GGAAGGCGTC CTTTTTCCTT GTAGCTAACG TTAGGCCTGA GTAGCTCCCC 60
TCCATCCTTG TAGACGCTNC AGTCCCTACT ACTGTGACGG CATTTCATC CCTCCCCTGC 120
CCGGGAAGGG ACCTTGCAGG GACCTCTCCC TCCAAAAAAA GAAAAAAGA AAAAGANAGA 180
AAAANTAAAT GAGGAAACGT GTTNCAAA 208

SEQ ID NO:4872

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05799

SEQUENCE DESCRIPTION:

GATCAGACCA TAATGTTACA TTATTATCAA CAATAGTGAT TGATAGAGTG TTATCAGTCA 60
TAACTAAATA AAGCTTGCAA CAAA 84

SEQ ID NO:4873

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05801

SEQUENCE DESCRIPTION:

GATCCTGGCC GAGGTGAGGA ACAGACAGGG GGGGTCTAGA TTCTAAGGGG GTTGGTGGAT 60
ATTGGGCAAG GCAGGAAACC TCTGGAGACC TCATTTCTC CATGGGGAAG ACAGCCATGC 120
TCTTCAGGAG GAGACTCCAA GGGCAAAGNA GGGTGTCTTG GCTGTNCTTG AAGGCGAAAC 180
CCTGCCATAT CCCCAGTGCC AGTCCCCTCA GNCTGTGGTG GCCTTGCATC CTGACTGGAT 240
GTTCTCAGCC CNTTGTCTTG GGCAAGAACC CAGAGCTCCC CAGTNTGGAT ACTTATTA 300
CCTNTTTGGA GNCNCAAATA NAAAAAANA AANNAGN 337

SEQ ID NO:4874

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05804

SEQUENCE DESCRIPTION:

GATCCAGGGG CTGATTGGCA GCGTGGAGGA GCAGCTGGCC CAGCTTCGCT GCGAGATGGA 60
GCAGCAGAAC CAGGAATACA AAATCCTGCT GGATGTGAAG ACGCGGCTGG AGCAGGAGAT 120
TGCCACCTAC CGCCGGCTGC TGGAGGGAGA GGATGCCCAC CTGANTCAGT ACAAGAAAGA 180
ACCGGTGACC ACCCGTNAAG TGCGTACCAT TGTGGGAAGA GGTCCAGGAT GGNAAGGTN 240
AATCTTCTTC CGTGNAGCAN GGTNCAACCA GACCAACCGT TTGAGGGACT TANGTTACCN 300
NGNGCCGGGC CAACCNAAGG AGGGNNTTN 329

SEQ ID NO:4875

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05807

SEQUENCE DESCRIPTION:

GATCACTTGC TTTTATGTCC ACTTTTNNAG TGGTACTTAA ATGTAAAGTA ACAACCTGAA 60
TTGAGTCATT GCTTTCTGAA GGAATCATTG TCCTTTCTCC AGTTTTTGTN CCAGAATAAA 120
AGGAAATATT TAAAAGCCA AA 142

SEQ ID NO:4876

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05808

SEQUENCE DESCRIPTION:

GATCCTNCAG CACAGGAATT CTCAAGACCT GAGTATTTTT AATAATAGGA ATGTCCACCA 60
TGAACCTNAT ACGTCCGTGT GTCCCAGATG CTGTCATTAG TCTATATGGT TCTCCAAGAA 120
ACTGAATGAA TCCATTGGAG NAGCGGTGGG GNACTAGCCA GACAAAATTT NAGANTACAT 180
AANCAACGCA TTGCCACGGN AACATACAGN GGATGCCTTT TCTGTGATTG GGTGGGATTT 240
TTTCCCTTTT TATGTGGGAT ATAGTNGTTA CTTGTGACAN GTATAATTTT GGAATAATTN 300
CTATTAAATA TCANCTCTGA NGNTACTNGT N 331

SEQ ID NO:4877

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05810

SEQUENCE DESCRIPTION:

GATCATGCCA TTGCACCCCA GCCTGGGCAA CAACTTAACT TTTTGAAAC TCTGTCTCAA 60
A 61

SEQ ID NO:4878

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05813

SEQUENCE DESCRIPTION:

GATCCTCTGG ACACGTAACC TATGTCAGNC ACTACATGAT GACTCAAGGC CAATAATAAN 60
GCCATTTCTT ACCTGCACAA A 81

SEQ ID NO:4879

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05814

SEQUENCE DESCRIPTION:

GATCCANAGA GGACCCCGN CCCAGAGAC TTGGTTTTGG CTCCAGCCTT CCCCTGGCCC 60

CGTGACACTC AGGAGTTAAT AAATGCCTTG GAGGAAAACA AA

102

SEQ ID NO:4880

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05815

SEQUENCE DESCRIPTION:

GATCAAAAGG TCTCAGATGA TGATAAAGAA AAGGGAGAGG GAGCTCTTCC AACTGGGAAA 60
TCCAAA 66

SEQ ID NO:4881

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05816

SEQUENCE DESCRIPTION:

GATCTCTAGA GTCCATTAAA AGCAAGCTAG ATTGAGAGCT CTTGGAGGGC AGGGACTGGG 60
CCTAGCTCAT GGTTCACAGC TCTTGAGGGT GACTGCACAG TGGACTCAGT CAGTCATGGC 120
TGAGTTGTGT TGGCTTNATT ATCTCTAGAA TGAGTTCTC CATTCAAATG CAAATCAGCC 180
TGGNNGGNTC ACCTGTAGTA AAGGGGGTTT CTACCTNGNG GATGGAAANA GNNNTCTTAG 240
GNACCTTCCT TGGGCCTCCA GNACTTATTT TNGATATCCC NTTATGN 287

SEQ ID NO:4882

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05817

SEQUENCE DESCRIPTION:

GATCATACCA TTGCACTCCA GCCTGAGTGA CCTGACTGAG ACTGTCTCAA AAAGNGTAAA 60
ANATAAAAAT TAAA 74

SEQ ID NO:4883

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05818

SEQUENCE DESCRIPTION:

GATCTNACTC CAGCAGAGTC TGTNCCAATN TGGGGTGAGC AGGGCCCCTG CCATGGAGCA 60
GCAGGAATTT NAGGGATGGA GCAGGTAAA GAATGGGAAA CATAAA 106

SEQ ID NO:4884

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05819

SEQUENCE DESCRIPTION:

GATCTTAGTG GTGAAAGTAT GTGTAACCAT GTGATGGTTA AAACANGACT TACAATNCCT 60
AAATGTGTAA CTGAGAATAA AACGTACTCT NTTAAA 96

SEQ ID NO:4885

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05820

SEQUENCE DESCRIPTION:

GATCCNAAGN CTCCGGGCAG CCGTTATCCC GTGGTTTAAT AAAGCTNCCG CGCGCTCACC 60
AAA 63

SEQ ID NO:4886

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05821

SEQUENCE DESCRIPTION:

GATCCTGCTG TGTGTCCTGT TCCATGTTCC GGTTCATCC AAATACACTT TCTGGAACAA 60
A 61

SEQ ID NO:4887

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05823

SEQUENCE DESCRIPTION:

GATCTCCTTG TCAGGAGCAC CTAAGAACTG GCATGACTCT ACACCCTNTC TCCTTCTNCA 60
ATGACCTCGT GTCAAGATGG CAGACCTGCA GAGATGAATT TGCCTNGATA CCTGAGTCAC 120
CAGNGNGGAG GAAACTCCCA TTNGACATGC ATCACACTCC ACATATGAAA CCCTNCTTTT 180
GCTGCACTGT CACTGGGGGN TAGGGGTTAT TACTCACTGC AACTTAGCCT AGCATTAAGT 240
TGNTTTGACT NATNCANGTT TCAGTAAANG TCGN 274

SEQ ID NO:4888

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05824

SEQUENCE DESCRIPTION:

GATCTGTGTT GGTTCCTTAG ATTGCTAGCT TTTCTCCAG GGGACCACAG CAGGTGAAGC 60
TCAAGAGCGC ATGGCTCTGC TAATAGTAAA TTGTTTTTTCAG GGCCTTGTCCT AGCTGAGAGC 120
TTCATGTCCA CCAGATTCTG AGAGGTGTCA GCAGCACTTT TTTTNTNATT TGTNGTTNGG 180
TTTCCNCCCG GTTATCGGAC CATGGGCTNA GCTCAGGCAC TTGCTGTAGG AGACTNGNNA 240

TTNCTGTAAA GGANNGGTNA TTTANCCN

268

SEQ ID NO:4889

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05825

SEQUENCE DESCRIPTION:

GATCAAACTT GGTCTGGGTA TTGATGAAGA TGACCCTACT GCTGATGATA CCAGTGCTGC 60
TGTAAC TGAA GAAATGCCAC CCCTTGAAGG AGATGACGAC ACATCACGCA TGGAAGAAGT 120
AGACTAATCT CTGGCTGAGG GATGACTTAC CTGTTCAGTA CTCTACAATT CCTCTGATAA 180
TATATTTTCA AGGNTGTTTT TCTTTATTTT TGTNAATATT AAAAAGTCTG TATGGCATGA 240
CAACTACTTT AAGGGGAAGA TAAGATTTTC TGTCTACTAA AGTGATGCTG TGGTACCTTA 300
GGCACTNAAG CAGNGCTAGT ATN 323

SEQ ID NO:4890

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05826

SEQUENCE DESCRIPTION:

GATCTAAGAG TATGGCTAAA CATCTATATA TGCAATCTAT TAAAAGAACT TAATTCGGCT 60
ATTAAA 66

SEQ ID NO:4891

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05827

SEQUENCE DESCRIPTION:

GATCTCTGGA GCTCAAGAGG TTGAGGCTGC AGTGAGCCGA TGTGCCAGTA CACTGCAGCN 60
TNGGTGACAG AGCAAGACCC TGTCTCAAA 89

SEQ ID NO:4892

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05829

SEQUENCE DESCRIPTION:

GATCGCCACT TACCGCAAGC TGCTGGAGGG CGAGGAATGC AGACTCAGTG GAGAAGGAGT 60
TGGACCAGTC AACATCTCTN TTGTCACAAG CAGTGTTTCC TCTGGATATG GCAGTGGCAG 120
TGGCTATGGC GGTGGCCTCG GTGGAGGTCT TGGCGNCGGC CTCGGTGGAG GNCTTGCCGG 180
AGGTAGCAGT GGAAGCTACT ACTCCAGCAG CAGTGGGGGT NTCGGCCTAG TNNNNNGGGC 240
TCAGTGTGGG GTGCTCTTGG CTTCAGTGCA AGCAGTAGCC NGAGGGCTGG GGGTGGNCTT 300
NTGGCANTGG CGGNTNTAGC AGNTCCAGCG TCAAATTTN CTCN 344

SEQ ID NO:4893

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05830

SEQUENCE DESCRIPTION:

GATCAGGNAG CCTCCTGATG CCAGAACACC TNAGGCAGAG CCCTACTCAG CTGTACCTGT 60
CTGCCTGGAC TGTCCCCTGT CCCCGCATCT CCCCTGGGAC CANCTGGAGG GCCACATGCA 120
CACACAGCCT AGCTGCCCCC AGGGAGCTCT GCTGCCCTTG NTGGCCCTGC CCTTCCCACA 180
GGTGAGCAGG GCTCCTGTCC ACCAGNACAC TNAGTTCTNT TCCCTGCAGT GTTTTCATTT 240
TATNGGGGNC AAACATTTTG CCTGTTTTCT GGTTTCAAAC ATGATAGTTG ATATGAGACT 300
GAAANCCCTG GGTGTGGAG GGGAAATTGG GNTNAGAGGG GN 342

SEQ ID NO:4894

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05831

SEQUENCE DESCRIPTION:

GATCCTGGAC TTNCCCTCA GCAAAGATGC CTCNTGGTG GTGACCACGT CAGGAGACCA 60
CAAAGCGAAA NTNTTNTTT TCCAAAGGCC TGACCGTTAA TGGCTGCAGC CCCTGCCTGT 120
TTGTNTGGTG TTGAGGGN 138

SEQ ID NO:4895

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05832

SEQUENCE DESCRIPTION:

GATCCACCCG CCTCAGCCTC CCAAAGTGCT GGGATTACAG GTGGGAGCCA CAACACCCGG 60
CCATGAATTA ACTCCGTAA AAAATAAACG TATACATTCT GTGAGCAAA 109

SEQ ID NO:4896

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05833

SEQUENCE DESCRIPTION:

GATCGGTTTC GCCATCATGA CGCAGTGTCT CCCAGTGGCC CTGTTCTCCC TGGTGGGCTT 60
CAGCCAGATG ACCATNTGGG CCAAGGGCAA GCACCGCAGC TACCTGAAGG AGTTCCGGGA 120
CTACCCGCC CTGCGCATGC CCATNATNCC CTTCTGCTC TGAGCGCTCA CCCCTGCTGA 180
GGCTCAGCCC CTNAACCCGG TGGCATTCTG GGGGAGGAGT GGGGCCACA GNTCTCCAGC 240
ACCCGAATA AAGCCCGNCT GCCCCAGTCG GAAA 274

SEQ ID NO:4897

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05834

SEQUENCE DESCRIPTION:

GATCTTGCTG GATGTGAAGA CGCGGCTGGA GCAGGAGATT GCCACCTACC GCCGCCTGCT 60
GGAGGGCGAG GATGCCCACC TTCCTCCCA GCAAGCATCT GGCCAATCCT ATTCTTCCCG 120
CGAGGTCTTC ACCTCCTCCT CGTCCTCTTC GAGCCGTCAG ACCCGGCCCA TCCTCAAGGA 180
GCAGAGCTCA TCCAGCTTNA GCCAGGGCCA GAGCTCCTAG AACTGAGCTG CCTCTACCAN 240
AGCCTNCTGC CCACCAGCTG GCCTCACCTC CTGAAGGNCC GGGTCAGGAC CCTGCTCTNC 300
TGGNGNAGTT TCCCAGGTAT NTTNNTGGT TCCTGTTGGT GAN 343

SEQ ID NO:4898

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05835

SEQUENCE DESCRIPTION:

GATCAGNAGC CCCCAACACA GGCAAGTCCA CCCATAATA ACCCTGCCAG TGCCAGGGTG 60
GGCTGGGGAC TCTGGCACAG TGATGCCGGG CGCCAGGACA GCAGCACTCC CGCTGCACAC 120
AGACGGCCTA GGGGTGGCGC TCAGACCCCA CCNTACGCTC ATCTCTGGAN GGGGCAGCCC 180
TGAGTGGTCA CTGGTCAGGG CAGTGGCCAA GCCTGCTGTG TCCTTCTTNC ACAAGGTCCC 240
CCCACCGTTC AGTGTGAGCG GGTGACGTGT GTTCTTTTGA GTCCTTGTAT GANTAAAAGN 300
CTGGAACCTN ANAAAAAGTG NGNNGNGGTN TNTGNTAN 338

SEQ ID NO:4899

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05836

SEQUENCE DESCRIPTION:

GATCAGCCCC TGACTTTNTT AAAAGATATC AGAAGTGTCT TGGAGCCAAC TAGAGGCAGG 60
GTCATCCTTG CCCTTNTCCT CCCCTTTCAT CCCTATGTGG AAAACGTAGG TGGCAAGTGG 120
GAGAAACCAT CAGAAATTTT GGAAATCAA GGACAGAACT GGGAAGANCA AGTGAATAGT 180
CTGCCTGANG TTTTCAGAAA ANCTGGTTT NTTATCGAAG CTTTCACCAG ACTACCATAC 240
CTGTNTGAAG GCGACATGTN TAANGNCTAC TNCGTTCTGG NTGACGCTNT CTTTGTCTC 300
AANCCAGTAT AAACACGTGG NGGTCGAAGT CTTCAGAGTC CGTACCNTNC TGGATN 356

SEQ ID NO:4900

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05837

SEQUENCE DESCRIPTION:

01501

GATCCCCCAG AAAAGAAAGC TACAGAAGAA ACTGGGGCTC CTCCAGGGTG GCAGCAACAA 60
TAAATAGACA CGCACGGCAG CCACAGCTTG GGTGTGTGTT CATCCTTGAA A 111

SEQ ID NO:4901

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05838

SEQUENCE DESCRIPTION:

GATCTTAATG GGTTCGATGG TAGGGAATAC GGAAAGGATA CACTGCTAAT ATTGTGTCTA 60
ACAATAAAGC AAACAACCTCG ATGCTGTAAG AAGACAAGCT GTTTGAGCTT TCAAACACAC 120
AGGGGCACAG CACAATTCAG AAATACCCAG GAGGATTCCT GCAGGCTTAA CAGTTGGCAT 180
CGTACTGAAA TGAAACGTGT ATTAACANGA AANTGTCAAA CTTTGGGGA AACAAATTTT 240
CTGTTACTTC CCACCCNACT AAAAGGGAAG ATAAAACCAT CATCACCAGN NNN 293

SEQ ID NO:4902

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05839

SEQUENCE DESCRIPTION:

GATCTACATA AGGAAAGGAA GAATATTAAA GAAGAAATAA ATGAAGACGA GATAAAATCT 60
TTTTTCTTAA TTATCAAATA AAAGTTTGTT AAAAGTAAA 99

SEQ ID NO:4903

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05840

SEQUENCE DESCRIPTION:

GATCAGGCAG TTCCTGGACT GTTCCACCAC TCAGAGTGAC CTGTCCCTGT GTGAGGGCTT 60
CAGCGAGGCC CTGAAGCAGT GCAAGTACTA CCATGGTCTG AGCTCCCTGC CCTGAAGAGG 120
TCGGTGCAGA CTCGGGGGCC AGTCCTGCAC NCACNTCTAC CCCTCGCCGA CAGCCAGACC 180
ACAACACCAG ATTGTACCCA GATAGCTGGG ATTGGAAGTN AGGAGGTTTC TCACCCACAC 240
GATAACCCAA GACACAAATG TGCAATTAAA AGTTTATTTT AGACCACAAA 290

SEQ ID NO:4904

LENGTH:68

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05841

SEQUENCE DESCRIPTION:

GATCTGCCCCG CCTTGGCCTC CCAAAGTGCT GNGATTNCAG GCATGAGGCG CTGCATCAGT 60
TCTGCAAA 68

SEQ ID NO:4905

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05842

SEQUENCE DESCRIPTION:

GATCTGCAAG CNGGAGCCCT CCTACCCGCA GCTTNAGCAC AGNATCATCC AGCCCTGGGG 60
AGGCGCACCC TTAAGCAATA CAGACTGGGC TGAGGCTGAC AGGCAGAAGA CTAACAGAGC 120
GCANTCTGCA CACGCAGGTT CTGGGGCGAC CTCTGGCCCT GGNCATCTCT GNACTAACTN 180
ATCTGAATTA TGGAAGGTGG CAGTNTTGGT CANTAGTTT NNN 223

SEQ ID NO:4906

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05843

SEQUENCE DESCRIPTION:

GATCCGTCCG CTCGGCCTC CCAAAGTGCT GGGATTACAG TCGTGAGCAC CGCGCCCGGN 60
CTGNGGTCAA TTTTCTATGT CAAGTGAGTG ACATTATTTT TACAAGTATT TTCTTCTTTT 120
TAAAATTATA CCAGCAAATA CAGTTAATGC AGAAACCTAA GTAATTTGAG TGTAGCTATT 180
CACAATCTAT GTGAAGNNNN CAAAATAGAA TGACCAGTTT TATTATAAAT TAAGGGGCTT 240
AATTTTCTAA AAAAGNANAN AANTGAGCCN TATCTCTGTG TTTTATAATT ATN 293

SEQ ID NO:4907

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05844

SEQUENCE DESCRIPTION:

GATCACTTGA GGCCAAGTAT TTAACCAG CCTGGGAAAT ACAGTGAGAC CTTNTNTCTA 60
CCAAA 65

SEQ ID NO:4908

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05845

SEQUENCE DESCRIPTION:

GATCCTGAAG GCCTTCGAGT ATTTTACTAT TTGGTACAAG ACTTGAAATG TTTNGTNTTC 60
AGTCTTATTG GATTACACTT CAAGATTAAN CCAATTTAAA TTGTATGTNT TCAGGCTGTT 120
TGTATATTTN ATTAAGGGAT GGGAGGGGTT ATTTGTCATT TACAGTATTG GGGTTTTNAT 180
GAATGTGAAG CAAACAANAN ANATTTGTNT GTAACTGTT TTNTN 225

SEQ ID NO:4909

LENGTH:135

01503

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05846

SEQUENCE DESCRIPTION:

GATCAGGTTG GGGGGCAGCC CCCAGTCCCT TTCTGTCCCA GCTCAGTTTT CAAAAGACA 60
CTGACATGTA ATTCTCTCT ATTGTAAGGT TTCCATTTAG TTTGCTCCG ATGATTAAAT 120
CTAAGTCATT TGAAA 135

SEQ ID NO:4910

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05847

SEQUENCE DESCRIPTION:

GATCCAGTAT TTGATGAAAC TCATGAAAGT GGGTGGAGCC CATCTNGCCC CTCCTCTTTT 60
CTAGGACGCA CTATATGTGA CTGTGACTTT CAAGGACATT TGTGGCCAT TTGCTGATTT 120
TTTTGGGAAG TNAATTNCTA ACTNCTTTCA CTGATAAATG NAGAAAAGTA TTGCACCNGT 180
GAAATGCACC AAATGAATNG NGTTTTGTAA TAAAAAAN NTNTN 225

SEQ ID NO:4911

LENGTH:281

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05848

SEQUENCE DESCRIPTION:

GATCCCCTAA GGTCTGGCC CAGGNCTGCC CAAAGAGAAG CCCAGGATGG TCGGCTGCCT 60
GGGGGCATTG TCACCACGTN GCCATGACGG CTGGTCCCNA CAGGNCCAGC TGGGAGGACT 120
GGTTGTGCTG CTGGAGAAGG GCTGGAGAAG GCAATGGCAT GCTGCCGCTT TGCCAGTCCC 180
TAGAAGTCGC GGTGCAGGTG ATGTGTNGNG AGCCGTNCCT NCANTGGGCA GGCCNGGGAG 240
TNTACTTGTG TGCAGCTGAC CCAAGGGCAG CCACATNTNN N 281

SEQ ID NO:4912

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05849

SEQUENCE DESCRIPTION:

GATCAAAACC CAGCAGAGTG CAAGCAGCAG TGAAGCAGGA TGTATGTGGC CTTGAGGATA 60
ACCTGCACTG GTCTACCTTC TGCTCCCTG GAAAGGATGG ANTTACATC ATTTGGGCAA 120
GGCCTATTTT CAAGGTTTNT TTGGTNTGNT TGGNTNGCTT GTTTTGGNT TNTGGCAGN 179

SEQ ID NO:4913

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05850

SEQUENCE DESCRIPTION:

GATCGAGGGC TGGGNACCCC GGTGTNAGCA GGATGGGGCC CTGCCCTCCC GTGGNAGTTG 60
TGGACTCGAG CCCAGGGGCT GCCCGTAACA GCGGTGTCCC AGGTCCCTGC CATCCNATTT 120
TACCTGGAAT GTCTTCTCTG GAGTTTGAA TTGCTTGAGG AACCTGCGT GTGCTTGGAG 180
AGGCCAGAGG GCTTGCTGAG AACCCCATGG ACAGTGGAGA GCGGGATTCG AACCAAGGGC 240
TGGACTCCCA CACCTNTGGC CTGCGTCGCC CAGTTCTTTG TGGCTCTGAA GAATTGGNCG 300
CTGTGGAAAA GTN 313

SEQ ID NO:4914

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05851

SEQUENCE DESCRIPTION:

GATCTTATGT GTTACAAAAT TGGAGAAAGT ATTTAATAAA ACCTGTTAAT TTTTATACTG 60
ACAATAAAAA TGTTTCTACA GATATTAATG TTAACAAGAC AAAATAAATG TCACGCAACT 120
TAAA 124

SEQ ID NO:4915

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05852

SEQUENCE DESCRIPTION:

GATCCCCTGA ATGCCTTTGG AGGCCAGTAG AGCACACAGG GTATCCACAT GTTACCCTGC 60
AGCTACATTG TTGAGTTAGT GATGATATTG TATATGCTCA TGGTCTNAAC TGGATTACAA 120
AAAGCAAATA CTAGAACAGC TAGCTCATCT TTNACCCAAT GACTTTAGTA TTTTCNTGCA 180
CTGGTTTAAAT CATGNTTAAAT ACTACAAANC AAAANTAANT ATTTACAGT GGTTGGNTTG 240
TNTTGTTTTT ANCCACAGT TNGANTTAGT TAGCCTTGCT GGGGCCATAA TATGCTTCAG 300
GGTGTGTAAN TGN 313

SEQ ID NO:4916

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05854

SEQUENCE DESCRIPTION:

GATCTGGGGA CTACCAGAGA CTCTGGGAAA TGGACAAGGT GGGGGGCCCC ACTCTTTCTC 60
TCCTGCAGTC CCGTAGCTGG GGCCCTCTTC CTTCTCAGGG TCTCCCCAGC CCAGTCCCCT 120
TGCTCCCATC CCACTCGGTG CTGTTGGGTA GGGGCCCTGC CAGGAAGTGA CCAGCTNAGC 180
GAGGAGCCAT AATGTGCATA TGTGCACAAG CAGGGTTTGG GGAGGGGGNT GTGAGGGGNT 240
GTGCCAGGT GTTGGCCCT ATCTCCTGGG GAGGGTGAGG NAGGGCAGG ACAGTNTCCA 300
GGGGTNAATT TN 312

SEQ ID NO:4917

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05856

SEQUENCE DESCRIPTION:

GATCTAAATA TTCTGGTTTG GATTAGGCAA TAAAAATTTT TTTGGCAACA GGAAA

55

SEQ ID NO:4918

LENGTH:370

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05857

SEQUENCE DESCRIPTION:

GATCCAAGGA NCGTTTGGNT TTTCTAGCT ACATCTGGTA CCTTGGCTGG CATTATGGGA 60
ATNAGTTTCT ACCACTCTGG AAAATTCATG CCTGCAGGTT TAATTGCAGG TGCCAGTTTG 120
CTGATGGTCG CCAAAGTTGG AGTTAGTATG TTCAACAGAC CCCATTAGCA GAAGTCATGT 180
TCCAGCTTAG ACTGATGAAG AATTAAAAAT CTGCATCTTC CACTATTTTC AATATATTAN 240
GAGAAATAAG TGCAGCATTT TTNCATCTGN CATTTTACCT AAAAAAAAAG ACACCAAANC 300
TTGGCAGAGA GGTGGGAAAA TCAGTCATGT TTTACCAANC CTANCNGAGG TTGGCGTGTT 360
TTGTTACCTN 370

SEQ ID NO:4919

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05858

SEQUENCE DESCRIPTION:

GATCTTGAAA GGAAGTATGC TGTTCTCTAT CAGCCTCTAT TTGATAAGCG ATTTGAAATT 60
ATTAATGCAA TTTATGAACC TACGGAAGAA GAATGTGAAT GGAAACCAGA TGAAGAAGAT 120
GAGATTTTCGG AGGAATTGAA AGAAAAGGCC AAGATTGAAG ATGAGAAA 168

SEQ ID NO:4920

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05859

SEQUENCE DESCRIPTION:

GATCATGGGA GGGAGCTGAG GGGTTAATAT ATATACATAC ATACATATAT ATATATTTNN 60
GTAAATAAAC AGGAAGTAT TTNCTGCCTC CATCCCACCC ATGAGGGCTG CAGGNACTAC 120
AAGAGAAA 128

SEQ ID NO:4921

LENGTH:166

TYPE:nucleic acid

01506

TOPOLOGY:linear

CLONE:HUMGS05860

SEQUENCE DESCRIPTION:

GATCGGGTCC CCAGAGCCAC CATCTCCTGA GCCTCCCACC CCGCTGCCTG GGCCCTGTGG 60
TTGCTGGGCC TCCACCTCA AGGAGGGGAA GGTGTACAG CCCGAACCCG TGGAGCAATG 120
CCCTGTNTGG NCTCCAAAC CAAAATAAAA CTGGTGTAC TTAAA 166

SEQ ID NO:4922

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05862

SEQUENCE DESCRIPTION:

GATCTTTAAA CTGCTTTATA CACTGTCACG TGGCTTCATC AGNTGTGTGC ATTCAGGAT 60
GGTTTTTAAA GNAACCTCAG AAAGNTATTT CCTAAA 97

SEQ ID NO:4923

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05863

SEQUENCE DESCRIPTION:

GATCACAGAA AAATTAATAA TCCAAGTGCT CTCTAGATTT GTTGATAAAC ATTTTATGCT 60
TGCATTTAAA CTTGAAATGT ATGAGCAGAA TGAGACAATC AGTTAAATCA GAAATGAGAA 120
GTATTATAAT GTAAAGGCCT TGTTTTGCTG TAGCAATANN ATGACCAAGT GCAATGACTT 180
GATTTAATAA AATCATATNT TAAAAGTTAA A 211

SEQ ID NO:4924

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05864

SEQUENCE DESCRIPTION:

GATCAACGCC TCACTGAAAC ATGGCTGTGT TTGCAGCCTG CTCTAGTGGG ACAGCCCAGA 60
GCCTGGCTGC CCATCATNTG GCCCCACCCA ATCAAGGGAA GAAGGAGGAA TGCTGGACTG 120
GAGGCCCTG GAGCCAGATG GCAAGAGGGT GACAGCTTGC TTTCTGTGT GTACTCTGTC 180
CAGTTCCTTT AGAAAAAATG GATGCCCAGA GGAAGTCCAA CCCTTGGCTT GGGGTCAANG 240
AAACAGCCAG CAAGNGTTA GGGGNCTTAG GGCAGTGGG CTTGTTTGT CCCATTTGAA 300
NGGCGGNCTT NTGGGCCCTG GGCCTTNAG GTTTGGTN 338

SEQ ID NO:4925

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05865

SEQUENCE DESCRIPTION:

GATCCTGTCT TCTTTCATGT TTACTIONAGAG GCATGACATT CATGGCAAAA CAGGGATGCC 60
 GTTTCOAAGA GCAGCTATAA AACAATCTGT TTTCTAAAG ACAGCCACTC TGAGAAGGNG 120
 ATGANGGAAC ACGGCAGGGT TCATCANTTC ATAGACTGTT TCCAAAAATA ATTTTAAAC 180
 TTTTCCACTA GGCATCTGTG TCTTTAACCA CTGCACANTG GCNTTGCCTG TTTAATANAA 240
 GGTNNTCANN ACGTGGAAG 259

SEQ ID NO:4926

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05866

SEQUENCE DESCRIPTION:

GATCCACCCA CCTCGGCCTC CCAAAGTTTT GGGATTACAG GCACGAGCCA CAGTGCCAGC 60
 TGAAAACGTT TCCTAAACAG AAGTGCAGAG AGCATGATGG AGCCCAGCCT GGGCTTGACA 120
 TTTGGAGAGA ACTACAGAGA AGTATCCAGA CTGTTGTTAC TAATAAATAA ATACATAAGC 180
 TCCGCTGNAC GGAAA 195

SEQ ID NO:4927

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05867

SEQUENCE DESCRIPTION:

GATCCAACAA TAAAATATTA ATTTATAAAA AAGAAATTTT AAAAAGTAAC AAGAAA 56

SEQ ID NO:4928

LENGTH:82

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05868

SEQUENCE DESCRIPTION:

GATCATCCTC CAAGCAGTCC TGTTTATTCA TGTCTGCCTC AAATTGCTGG TGAATACATA 60
 AAATAGTTAC TTGCTAATCA AA 82

SEQ ID NO:4929

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05869

SEQUENCE DESCRIPTION:

GATCCACCCG CCTCAGCCTC CCAAAGTGCT GGGATTACAG GCAAAAGCCA ACACACCCGG 60
 CCTGGATATG AATTTATAAT ACCCTACAGT GCAGCACAAG AAGATGCACT CAAAGCACTG 120
 ATGTGAGGAA GTACTTGCCC CGTAGCAGCT ATTCACTCTA CCAGTGTAAG CAAACTCTAA 180
 GGCTAGGGCG GGGCAGCACA GGCACANGNN TATACTAGCC AGGGGTTTAA TATAANTACA 240

ACCAGCATAG NAAGNCCCAA ANCTNTACAG NNNCCAANAC CNGGNN

286

SEQ ID NO:4930

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05870

SEQUENCE DESCRIPTION:

GATCTGTGCC CCATGCCTGT CCAGCCTGGG CAGCCAGGCT GCCAAGGCCA GAGTGGCCTG 60
GCCAGGGGCT CTTCAGGCCT CCCTCTCTCT TCTGCTCCAC CCTGGCCTG TTTCATCCCC 120
AGGGGTCCCA GCCACCCCGG GCTCTCTGCT GTACATATTT GAGACTAGTT TTTATTCCTT 180
GTGAAGATGA TATACTATTN TGNTNAAGCG TGTCTGTANT TANTGTGTGA GGANCTGCTG 240
GGNTTCANTT CGNGTGNACG GTGGGAGAGN TTGGGTGCCC GNGAGAATNG ACGGGCTNAT 300
GGNTTCCTTT N 311

SEQ ID NO:4931

LENGTH:305

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05871

SEQUENCE DESCRIPTION:

GATCAAAAAA CTACCTATCT GGTACTATGC TTTNATCTG GATGATGAAA TAATCTGTAC 60
AACAAACCCT GGTGACATGC AATTTACCTA TATAGCAAGC CTACACATGT GCCCCTGAAC 120
CTAAAAAAA AGTTAAAAGA AAAACGTTTG GNTTATTTT CCTCTTTNGA ACAANGNCAT 180
TGGTTTGCCC AAGGNCTACA AATAANCCAA CGGGAAAAAN GANAGGTTCC AGTTTTGTNT 240
GANAATTCTG ATTAAGCCTC TGGGCCCTAC AGCCTGGGGA ACCTGGNGAN TCCTACACCC 300
GGGAN 305

SEQ ID NO:4932

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05872

SEQUENCE DESCRIPTION:

GATCCAGAGA CACACAAGAG CACCAAAGCA GCTCATCCCA CTGATGACAC CACGACGCTC 60
TCTGAGAGAC CATCCCCAAG CACAGACGTC CAGACAGACC CCCAGACCCT CAAGCCATCT 120
GGTTTTCATG AGGATGACCC CTTCTTNTAT GATGANCACA CCCTNCGNAA ACGGGGTCTG 180
TTGGTCGNAG NTGTGCTNTT CATCACAGGG ATNATNATTN CTNACCAGTT GGN 233

SEQ ID NO:4933

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05874

SEQUENCE DESCRIPTION:

01509

GATCTACTAA AACACTAAGT TTCATACTAA ACCGTTTCAT GTATCTTTAT CATATTCTGT 60
AAAGTTTACA CTTTGATGTA CCTGTATTTT ATTGAAATAC TGTCCAGCTT CAAATGGAAC 120
AATATTGTAT GTAGAAATTC CAATTACTGG TTTGTCAGTN GGATTCTTAG CTCTGTAAAA 180
CGCCAGTGCA GTCTCTCCTG GCACCACCTG TNTTAAAGAG TATATATATN ATCAGTNCTT 240
TGNNTCTCAC AAAGNGCCTC NNTTCCCTG CTAAGN 276

SEQ ID NO:4934

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05875

SEQUENCE DESCRIPTION:

GATCTGGTGG GCTGGGTCCC CCTCTCGACC NCAGACGCCC CTAACGCGCC CCTTCTCATT 60
TTATACAATA AACATTCTCC ACCTACAAA 89

SEQ ID NO:4935

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05876

SEQUENCE DESCRIPTION:

GATCAGGAGT TCTAGGCTGT AGTGTGCTAT GAGCACATCT ATGAATAGGC ACTGCGTTCC 60
AGCCTGGGCA ACATAGTGAG GCCCCATCTC TTTAAAGGGC ACACGTGTAT AGGACAGCTC 120
CATTATAATC TTATGGGACC ACTGTAATAT GTGTAATCCA TTGTGACTG GAACATCCTT 180
ATGCAGCACA TGACTGTGTA CATAACTTAA AATTTATCAT TTAAACCATT TTTAAGTGTA 240
CAATTCGGTG GTATAAAGTA CATTTACATT ATTGTGTAAC TATCACCTCT ATCCATCTCC 300
CTAACTTTTT CNN 313

SEQ ID NO:4936

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05877

SEQUENCE DESCRIPTION:

GATCCGGGTT CAGAGTGACG TTTTTCCTCA CAAGCAGAAG GTAACAAATT TCATGCTCTC 60
CCTAAATTCT GTCTGATTTT GCCTNGTGGT GATAGATTGT CANGAACACA ATGTCCTCTG 120
GAGAAATCTA TTGACAGAAA TTGGTGCAGT GTTANCAACG CTAATGTAAA ACACAGANTT 180
TACAGAAAAAN TAGAGAAAAT AAACACATTT GTNNGCCTCA GAAA 224

SEQ ID NO:4937

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05879

SEQUENCE DESCRIPTION:

GATCCTCTCT CCCAGGGAAT CCGACACAGG AGGAACCCCT TCTNTGGTTG ANCTGGGCCA 60
 GGCCTAAGAG TAGCAGGAAC TCTAAGACCA CAGAGTTTTT TATAAATGTA TAAATGTATC 120
 AAGCCAAATN TGCAGATGCT AACTGGACAT TCTGGGGAAC TGGGCACCAG GNGTGCCTTC 180
 ATACACTGTA CCCAGCTCT NTTCTAAAAG AGAAGTNGGT GGGCACACTT GAACTGTTTG 240
 GTGGNCCNAA CCACAGGANG CTGCAATTNT NTGGNTTAGG GTGATACTTT TGGCCCTNCN 300
 TGTGGCCCCT NTTN 314

SEQ ID NO:4938

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05880

SEQUENCE DESCRIPTION:

GATCTGAAAG TATAAACTG CTAGAAGAAA ACATGGATAT TTGATTGGAC AATGATATTT 60
 GGATATGACA CCAAAAGCCT AGGCAACTAA TGCAAAAATA GACAGGGAGA GTACATCAAT 120
 CTTAAAAACC TTATGATGGC AAA 143

SEQ ID NO:4939

LENGTH:389

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05882

SEQUENCE DESCRIPTION:

GATCTGAAAT ACCATCTCTA CCAGAGACTC TGGGAAAAAT AATGGATTCC AAGTGTTAAA 60
 CGGAATTAAG TTTGGCCTAA AACTGCCTCT GTACATAGTG ACTTATAACC TCACTTAATG 120
 TATAAGCAAA CTGGGACCTG ACTTGAGAGT ACACTTCTGT AACAAGCAGC AGAGTCTCAC 180
 CAATCACATG CTGAAGGCTC CCAAAACATG NCTATGTGAG GTGGAGGCTG ACCTGCAGTC 240
 AGTCTGGCCA TGTACATGNG TCTTTCCTT NCTGTGGCTA TAAATAAATA CAGCCTGNAC 300
 ACANCGGACA GGNGGACCGT TCTGNACCAN GNTTGGGTCC TGNGNGNTAC CNAGGTNGAN 360
 GNAACTTTTT TTNGGCTCAN TTAACTGN 389

SEQ ID NO:4940

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05885

SEQUENCE DESCRIPTION:

GATCTCTCCG CCTTAGTTAA GAGCATGTGT CGGGAAATTC CTCAGAGTGC TCAGAGTCCC 60
 TGTATNTTTA TACCTTTTTA CAATGTTAAC TGTTCAGAAC TGNTTTTTGT AACAAAACCT 120
 NNTGTTTTAA A 131

SEQ ID NO:4941

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05886

SEQUENCE DESCRIPTION:

GATCATGGCG CAGTTGGNCA GGAGATGTTT TCCCCATCT GCTGTAGCGA ATATGTGAAG 60
TGGGAGGTGG CAACNGAGCT GCCNTTCCAC CACTATTNCC ACAAGCCGTG TGTNN 115

SEQ ID NO:4942

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05887

SEQUENCE DESCRIPTION:

GATCCTCCCG CCTTNGTCTG CCAAAGCACT NGGGTTACAG ATGTGAGCCA CTNACCCAG 60
CCTAATCTTN ATAAATCTCC ATCCCCATTA CTCTGGTTCA CCCNN 105

SEQ ID NO:4943

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05888

SEQUENCE DESCRIPTION:

GATCACGGAC GTGCAGCTCG CCATCTNCGN CAACATGCTG GCGGTGTCGC TCTTCTNGCT 60
TGTNGTTCTC TATCACTACG TGGCCGTCAA CAATCCCAAG AAGCAGGANT GAAAGTGGCG 120
CTTTCTCCGC CCCAGGGTTC CAGGACATAG TCTGAGGCAA GATGGAGGGT ATGAGGGGCC 180
TTCACACTNC ACTTCATCCC TTCTACCCAT CACAACATAC AAAGCAACTA CACCTGGGAT 240
TTTNCCAAGC AGCTTTNATT TCCTCAGNGT CTTCTTAAT CCTATGGGNA CANGGAAGCT 300
GCCACTNGNN TAGGGNCCAG TATAGGGGGC TTNGCTTTT TAACTGCNTN 350

SEQ ID NO:4944

LENGTH:304

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05889

SEQUENCE DESCRIPTION:

GATCCAGCGG CAGTGACAGA ATCCAAAGAG GGAACAGAGG CATCAGCATC GAAGGGGCTG 60
GAGAAGAAAG AGAAATGATG CAGCTGGTGC CCGAGCCTCT CAGGGCCAGA CCAGACAGAT 120
GGGGGCTGGG CCCACACAGG CGTGCACCGG GTAGAGNGCA CAGGTAGGCC AAGGGGNAGC 180
TCCCAGGACA GGGCAAGGGG GCAGCANGGA TACCTGCNAG CCAGGGNCTC TNTGGCCTNT 240
NTTTTCCTAN TCCNTTTTTT TGGCCCTTCT TTTTNTNTG CCGTACANCN TGCAGGCAAA 300
AGNN 304

SEQ ID NO:4945

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05890

SEQUENCE DESCRIPTION:

GATCAAAACA AAACAAAAA GTTGTCTCTG AAAAAAAAC AAAACAAAA AGTTGTCTCT 60
GAAA 64

SEQ ID NO:4946

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05892

SEQUENCE DESCRIPTION:

GATCAACCTT TGTNTGCGAG GGTCTAAGTA GGGTCGAACA CAGAAGTGGG AAGNAGAGGG 60
GTGGGCCAGG GGCTAATGGT GTCACGTGTG AAAGTTTTTG ACATACTAGC TCTATAAATA 120
TATGAATATG GACAAA 136

SEQ ID NO:4947

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05893

SEQUENCE DESCRIPTION:

GATCCTCTGC TACCAAACAA TGATGTGGAT TCTTTTGCAC AGAAATATTT AAGGTGGGAT 60
GGTAAAAAAT GTCACAAAAG ACTCCTCACC AATACTTNAT GTTGATATCA CTTAATATTA 120
ACCAGACTTT GCTGTATTGC AATAAAACAG AGAACTGTTA AA 162

SEQ ID NO:4948

LENGTH:405

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05894

SEQUENCE DESCRIPTION:

GATCATCGCC TCCCTGGTTT ATAGTAGACA GACCTTTTCT GTTTTTCATC CGACATAATC 60
CTACAGGTGC TGTGTTATTC ATGGGGCAGA TAAACAAACC CTGAAGAGTA TACAAAAGAA 120
ACCATGCAAA GCAACGACTA CTTTGCTACG AAGAAAGACT CCTTTCCTGC ATCTTTCATA 180
GTTCTGTAA ATATTTTGTG ACATCGCTTC TTTTCAAAA CTAGTTCTTA GGAACAGACT 240
CGATGCAAGT GTTCTGTTC TGGGAGGTAT TNGAGGGAAA AANCAAGCAG GATGGCTGGA 300
ACACTGTACT GAGGAATGAA TAGAAAGGCT TCCAGATGTC TAAAAAGATT CTTTAAACT 360
ACTGNAACTG TTACCTAGGT TAACCANCCC TGTTTGAGGT ATTN 405

SEQ ID NO:4949

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05895

SEQUENCE DESCRIPTION:

GATCTGCTCG GAATCCTCCT GCTAAAGAAG GNTCTGGGCG TGAGCTCAGC CGCCCCGCAC 60

CCCAAATCCA GTACAGGAGG CTGCTGGTAC AAATACTGCA GTAATGACAC CAATAATGGG 120
GCAGACACAA CAGCGTGGCT TAGATTGTGC CCACCNAGGG AAGGTGCTGA ATGGGACCCT 180
GTTGATGGCC CCATCTGGAT GTAAATCCTG AGCTCAAATC TCTGTACTC CATTACTGTG 240
ATTTCTGGCT GGGTCACCAG AAATATCGNT GATNCAGACA CAGATTATTG TTCCTGCTGT 300
ATTTGCTGGT TTNCTGGTT GAATTGGTTN 330

SEQ ID NO:4950

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05896

SEQUENCE DESCRIPTION:

GATCCAGAAT TTATTAGTTT AAAATGCAGG TGAACTTTTT TTTGCGTTTG GTTTACTTGT 60
CTGTCAAATG TTTCCTTAAA CATGAACTG AATAAGGAGA AGAGTATTTT TAACACTTAA 120
ATTTCTTGGC AAATTTTAAA ACATTTTNA GTCTGTAATA CACTCCACTT GANGCACTTA 180
AGTNTTCCTT AAATGACTTT CCTTAGGTAA TGATACTGGT GTGTTTTCCN AAGGCCCTTT 240
TAAAAAAGTN TNNNTAANTG ACTATCTGTT GAAANGGTGT CCTGTNCCTT NCTNCTAGNA 300
ATNTGGGN 308

SEQ ID NO:4951

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05897

SEQUENCE DESCRIPTION:

GATCGGAAGC AGAAGATGGC CTTCTTAAAG AGTTTAGAAG AATTTATGGC AAATGTTGGT 60
GGTCTCCTTT GTGTAAATA AACAACAGAA CTTTAAA 97

SEQ ID NO:4952

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05898

SEQUENCE DESCRIPTION:

GATCTGATAT TAAAACATCC AGTAGTACGA GTCTGTTTAT TGAATTTTAT GGTCCCTTTC 60
TTTGATGGTG CTTGCAGGTT TTCTAGGTAG AAATTATTTC ATTATTATAA TAAAACAATG 120
TTTGATTCAA AATTTGAACA AAATTGTTTT AAATAAATTG TCTGTATACC AGTACAAGTT 180
TATTGTTTCA GTATACTCGT ACTAATAAAA TAACAGTGCC AATTGCAAA 229

SEQ ID NO:4953

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05899

SEQUENCE DESCRIPTION:

GATCCAGAGC CCCTCCCCAT CTCCTCTCT CTAAAAACAA CCCTACCCCC CATTGCCACC 60
TTCACCTCTG TGTCTCCAGC TGATTAGCCT CAGACTCTTC TTNTATTGTT TTTCTTTTGT 120
AAATAAAAAAG CACCAGGTTC CAAA 144

SEQ ID NO:4954

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05900

SEQUENCE DESCRIPTION:

GATCCGTGCC CTGTAAAATG GATATNATGT TTTACTGATG TCTNTAATAC ATTTGTAAAC 60
TTCCAATAAA ATTTGAATAA AAGAAATNTT GCCATTCTTC TCAAA 105

SEQ ID NO:4955

LENGTH:325

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05902

SEQUENCE DESCRIPTION:

GATCTGGCAG CCCTGGAGAG GGAATATGAG GAAGTGGCGC AAAGTTTCTG AGGCATGTAT 60
GATGGGTGCA AATGAATGTC AAGTTAAAAT GGCATGTTT CTTTCAAGC CGNTATATGC 120
CTAGTGGGTA GTTCCCTGA TGAGCAGAAA AATTGAACTC AAATCAGGCA AGACTCTAGG 180
NTCCACACTA AATTAAGTGG GTCAGTANCG NCANTGANCA CATTATTTCC TGGTCTACTG 240
GGTACANGTC AGCTCTGCTT ACCTGNGGAG CNTTTTGAA GCTTAAGAGT NCTTTTGAAC 300
CTGGCTTGAG GTCAACTTGT TAGGN 325

SEQ ID NO:4956

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05903

SEQUENCE DESCRIPTION:

GATCTGTACA GACAGGACAG AATGAACTC CTGCGGCTCT TTGGCCTGAA AGTTGGGAAT 60
GGTTGGGGGA GAGAAGGGCA GCAGCTTATT GGTGGTCTTT TCACCATTGG CAGAAACAGT 120
GAGAGCTGTG TGGTGCAGAA ATCCAGAAAT GAGGTGTAGG GAATTTTGCC TNCCTTCCTG 180
CAGACCTGAG CTGGCTTTGG AATGAGGTTA AAGTGTGAGG GACGTTGCCT GAGCCCAAAT 240
GTTGTAGTGT GGTCTGGGCA GGCAGACCTT TTAGGNTTTT NCTGCTTTAG TTCCTGAGGN 300
ANNTNGGNCA CTCTTTNTNT N 321

SEQ ID NO:4957

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05907

SEQUENCE DESCRIPTION:

GATCCAGGGG CTGATTGGCA GCGTGGAGGA GCAGCTGGCC CAGCTTCGCT GCTGAGATGG 60
 AGCAGCAGAA CCAGGAATAC AAAATCCTNC TGGATGTGAA GACGCGGCTG GAGCAGGAGA 120
 TTGCCACCTA CCGCCGCCTN CTGGAGGGAG AGGATNCCCA CCTGACTCAG TACAAGAAAG 180
 AACCGGTGAC CACCCGTCAG GTGCGTACCA TTGTGGAAGA GGTCCAGGAT GGNAAGGTCA 240
 TCTNCTNCCG NGNCAGGTT CACCAGACCA CCNGTTTGAG GNCTCANCTA CCCC GGNTCG 300
 GNCANCCATN TNN 313

SEQ ID NO:4958

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05908

SEQUENCE DESCRIPTION:

GATCATTAAT GTCATTGCAA TNGTTATTTT TAAAATAAA TTTATAAAAA TAAA 54

SEQ ID NO:4959

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05912

SEQUENCE DESCRIPTION:

GATCTACAAG AGCAAGCCAA CAGAGTAAAG TGGAAGGAAG TTTATTCAGA AAATAAAGGA 60
 GTATCACAGC TCTTTTAGAA TTTGTCTAGC AGGCTTTCCA GTTTTACCA GAAAACCCCT 120
 ATAAATTAAT AATTTTAC TTAATTTAA GAATTAATAA AATACAAAAA AGAAAAATG 180
 AAAATAAAGG AATAAGAAGT TACCTAAA 208

SEQ ID NO:4960

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05913

SEQUENCE DESCRIPTION:

GATCCAAGTT ATAGATGGAA TTGAAGCCCT TGTNGCTGTA GATGTGCGTG CAGTCTGNCA 60
 GCCTTAAGCC CACCTNGGCA CTTT TAGATA AA 92

SEQ ID NO:4961

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05914

SEQUENCE DESCRIPTION:

GATCAACAGT AACTGGATGT TTTNAGGNG CTCAATTGGA ATAAAAATAT TNNAATCTAT 60
 TTGGAGACCA AAGGCAAAAT CGGTTTTCTT ACCTTTGGAA TTATTCGTAC CTTTTATGGT 120
 AAATTTTCAGC TTTGACANGT ATTATGAGGA ACGTACCAA AACC GGTTTG TAACAAATCT 180
 NTAGAGNAGG TCTGAATCTN TCGNNCTTGC CTTTTCAGGT GCCATTTCTA CTGGCCTAAT 240

ACAGNGCCAT TTGGCTTGTG AAGNNCCATN

270

SEQ ID NO:4962

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05916

SEQUENCE DESCRIPTION:

GATCTATGCC CNTNTTAATC TCCATCCATA TAGGAGTCAC GTTCTTTAAG ACAGATGGTG 60
GTAGTTATTT TTGTGGCATG GTTAGATTG ACTGGTTTTG CAGAAGATTA CAGTTATGTA 120
CTGCATAATG NCATATACAA TAGTGGTCCC ATAAANNNNN TAATGGAGCA GAAAATCTAT 180
TGCCTCATGA TGTTTTAGCC GGTTTANTGT CATAGNCTAG TGCATNACTC ACGTGN 236

SEQ ID NO:4963

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05917

SEQUENCE DESCRIPTION:

GATCGAGTAA GGAATGACCT NTAGATTGTG CGACTTTTGT TTTTGTITTN TTAAATTTTT 60
ATAAACCAAG AATGATTTCT CCNGCTTCN TCTCCTCACC ATCTCCCAG ACGGAGTTCA 120
AAGGCCACTT CTCAAGCAGC TTTTGGCACC TTCAGCCTCA GAGTGAATC TTTTAAAGAC 180
AGGACCCCTA TGTCAGGNA AGGGGAAAAG GAACNTTGCC ANTGATAGTG ACCACAGCAN 240
NNGCAANTAA TAGTAATNTT NATAN 265

SEQ ID NO:4964

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05918

SEQUENCE DESCRIPTION:

GATCACATTT ATACAGTTAT AAAAATAAAG GTTTGATTTT GGTCGTTCTT CAAA 54

SEQ ID NO:4965

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05919

SEQUENCE DESCRIPTION:

GATCTCTATG GCTGTAAAAAT ATTTCTTTAT AGCGTTATTA AAGTGTGTCT TAATAAAATT 60
AAA 63

SEQ ID NO:4966

LENGTH:233

TYPE:nucleic acid

01517

TOPOLOGY:linear

CLONE:HUMGS05920

SEQUENCE DESCRIPTION:

GATCCACAAA AGAAGTGAAA GTAGCCTTAA CTGATGACAT TCCACCATTG TNATTTGTTC 60
CTGCCCCACG CTAATGATA CCATATATTC TTCCCCCGCC CTTGAGAATG TACTTTGTAC 120
ACCTATCCCA AACCTATAAG AACTAATGAT AATCCNACCA CCCTTTGCTG ACTCTCTTTT 180
TGGACTCAGC CCGNCTGCAC CCAGGTGAAA TAAACAGCCC TGTGCTCAC AAA 233

SEQ ID NO:4967

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05921

SEQUENCE DESCRIPTION:

GATCTCTGCG TTTTATACT GAGTGTGCCT AGGTTGCCCC TTATTTTNA TTTCCCTGT 60
TGCGTTGCTA TAGATGAAGG GTGAGGACAA TCGTGTATAT GTACTAGAAC TTTTATTATA 120
AAGAACTTT TCCCAA 137

SEQ ID NO:4968

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05923

SEQUENCE DESCRIPTION:

GATCTGTAAA CCCTTACCCC TTGCTGTTCA GAGAGCTACT CTTTGTAGTG TTCTTGCATG 60
CATATATAAT AAATATTTT TCTATTGAAA 90

SEQ ID NO:4969

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05925

SEQUENCE DESCRIPTION:

GATCTAAATC AATGCAATAA AGTAAGAAAA ATAAATAAAA GTATTGAAAA GATTGAAAAG 60
AAAGAATTGA AGCTGTCTTT ATTCACAGAT AATGACTGTG TATGTTAATA ATCCTAGANA 120
TCTACAAAAN TCTGCCAAAN CTAATTAGTG AGTTTGGTAA TGTTCAGGA TATAAGCTCA 180
ATAGAAGTAG TCTTNGTAT TTCTGTGTAT TAGCAGTGAG CATTTGGAAA ATGANATAAN 240
ANTACAGTTT CATTTCAA 259

SEQ ID NO:4970

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05926

SEQUENCE DESCRIPTION:

01518

GATCTGTGCC CTTGGTCCCA GGTCAGGCCC ACCCCCTGCA CCTCCACCTG CCCCAGCCCC 60
 TGCCTCTNCC CCAAGTGGGG CCAGCTGCCC TCACTTCTGG GGTGGATGAT GTGACCTTCC 120
 TTGGGGGACT GCGGAAGGGA CGAGGGTTCC CTGGAGTCTT ACGGTCCAAC ATCAGGACCA 180
 AGTCCCATGG ACATGCTGAC AGGGTCCCCA NGGAGNCCCC GTCAGTAGGG ATGTTTGCCT 240
 GGNTGTTTAC GTNGGGGTGT NCAGTGNACG TGNAGGAGCA CGTGGGCGGC TTCTGNNGGG 300
 GNCAATGGTT TGGGGNANGG GAAGGTGTGC CAGCAAACCT NGGNNGGATN 350

SEQ ID NO:4971

LENGTH:202

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05927

SEQUENCE DESCRIPTION:

GATCCACGGG CTGCAGAATG GATATTGTAT TAGCAGGCAT GAAAACAACA TTCATCTCCT 60
 TGTGCATCTC TGTCTGAGTT CTTGGGTGAC CAAATGCCTT GTCAATGAGT GTAGTATTTT 120
 GAAAGGAATC TTTTTTTTTT TTTTCNCAGC AGTAGGNCNC AANGGTGGGC TTCAATTATT 180
 CAGTAAACTA TGTAANCAGA AA 202

SEQ ID NO:4972

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05928

SEQUENCE DESCRIPTION:

GATCCCAGCT ACTCAGGAGG CTGAGGCAGA AAAATCACTT GAACCCAGGA GGTGGAGGTT 60
 GCAGTGAGCA GAGACCACAC AACTGCACTC CAGTCTGGGC AACAAAGTGA GACTCTGTNT 120
 TACTAAA 127

SEQ ID NO:4973

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05932

SEQUENCE DESCRIPTION:

GATCCTATCA ATTAGACAGT AAATAAGTGC ATCTTTTTTG AGACAAATGC AGTAGGCAAA 60
 TGTTGACATT CACCAGGGCA CAGTCAATCC CTGACAATTT CAGAAGTTTT GTTGCCAATA 120
 CTGATTTATG TGGGCAGATT CTGGNAGTCT GCTGCTCCTT CNCTCATGGA TNACCTNCNN 180
 NNNCTACAG TTGCACCTAT TCTACACAAG AGTGGCATTC ANTNGTATCC AGGAAAGCTA 240
 GANCAGGTN 249

SEQ ID NO:4974

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05933

SEQUENCE DESCRIPTION:

GATCCGAGTC GTCCGGAAT CCATTGCCCG TTTCTCACA GTTATTAACC AGACTCAGAA 60
 AGAAAACCTC AGGAAATTCT ACAAGGGCAA GAAGTACAAG CCCCTNGACC TCGGCGCTAA 120
 GAGACACGTG CCATGCGGCN NCGCTNAACA AAGACGGGNG AACTTAAGGC CAGGAGAGCA 180
 NNGNAGGAN 189

SEQ ID NO:4975

LENGTH:230

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05934

SEQUENCE DESCRIPTION:

GATCATCATC TTTCAGGTGG TCTTCTGGG CCTCCTGGCT GGCCTGGTGG TCCTATTCTA 60
 CGNATATCCT GTCCNCTGTG AGTGGTATGA GTTCCTCACC TGCATCCCCT TCACTGACAA 120
 GTTCTGTGAG AAGTACGAAC TAGATGCTCA GCTCCACTGA GCTNGCTGCG GGGTTNCAGC 180
 GNNGGGTGTG TCCCAGCAGG GCCAGAGNCA GNCAAGANCT ACNCTGNNGN 230

SEQ ID NO:4976

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05937

SEQUENCE DESCRIPTION:

GATCATTAAT TATATGTAAA ATAATATACA TTCAGTTATT AAGAAATAAA CTGCTTTCTT 60
 AATAAA 66

SEQ ID NO:4977

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05938

SEQUENCE DESCRIPTION:

GATCTATGTC TTTCAGCTAT GTGCTTTTAA AACTTTGTAA TTTAGACATT GATATTGTCA 60
 TCAGATTGCT TATCAGCATT GCCATAAATA TAATTATTAA TGAAA 105

SEQ ID NO:4978

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05939

SEQUENCE DESCRIPTION:

GATCTGCCCA CCTCGGCCAC CCAGAGTGCT GGGATTACAG NCGTGAGCAC CGTGCCTGAC 60
 CAAAATAAAT AAATTTTAAA ATAGAAGTAA CTCAACTTCT GAGCTATGGA ATAGTTCTCT 120
 GTACCTCCAG TACCTAATAA AGAACCCAAA TACTGCAATA AA 162

SEQ ID NO:4979

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05940

SEQUENCE DESCRIPTION:

GATCGAGGAC TGGTACAGGA ACCACCAGGA GGAAGACCTG ACTGAATTCC TCTGCGCCAA 60
CCACGTGCTG AAGNGAAAAN ACACCAGTTN CCTGGCAGAG CAGTGGTCCG GCAAGAAGGG 120
AGACACAGNT GCCCTGGGNG GGANGAAGTC CAAGAAGAAG AGCATCANNG CCAAGGCAGC 180
AGGNGTCAN 189

SEQ ID NO:4980

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05941

SEQUENCE DESCRIPTION:

GATCTNTTTA AAAAATGTAT AAATTNCTTG AGTAATTCCT GGATTAAAGA ATATGCACTT 60
TTTAAA 66

SEQ ID NO:4981

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05942

SEQUENCE DESCRIPTION:

GATCGTGGC ATCAAGAGTG GAGAGGACCG NACAGCCGNG AAGGCAGCCT TTCANGAACC 60
TATGCTGGTG AGTGTAGGAG ATNGCTTANG AAGAGCTCAG ACCCTCTATC AAN 113

SEQ ID NO:4982

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05943

SEQUENCE DESCRIPTION:

GATCATAGTT ATTATACAAT GTAGTGAGTC CTGCATGGGT NCTCGATGTG TAATGAAACC 60
TGAAATAATA AGATAATAAG AAAAGCAATA ATTTTCTAAA GCTGTGCTGT CGGTGATACA 120
GAGATGATAC TCAAATTATA ATAAACTCT TCATTTTGTG AATTATAGAA GCTACTNNNN 180
NTAAAGCCAT ATTTTTTTAG GGAAACTAAG GAGTGACATA GAACTGATGA ATGAGCAAAA 240
GTAAGTTTTG CTGGATTTTT GTAGAACTCT GGACGTTGAG GATTCATTAT GCTGTGGTTA 300
ACTTTAAATA TTTTNN 316

SEQ ID NO:4983

LENGTH:338

TYPE:nucleic acid

01521

TOPOLOGY:linear

CLONE:HUMGS05946

SEQUENCE DESCRIPTION:

GATCAGCCCA CTTCACTCTC CCAAAGTGCT NGGATTACAG ACATGAGCCA CCTACCTGNC 60
CGGAGTTATT TCTAAACACA ACTAATATCA GAATCGCCTA TTTCATAAAA ATTGGATTCA 120
TCAAATNAAT CTTTGGCCAA CAACCATTTG AGAATGATNN NNANCAATCAT ACATAGGAAT 180
GCTACGTTTT CTAGGATTTG ACATTACAG CANTCGAGAN TTACCCTATT TTGTAAATNG 240
AAATAACCAT TACTAAAATC ATGCAAGCTT CAGCTNCTCG GGTTCCTATA GNGTCACCTA 300
AATCGTATGT GNATGGATAC ATAAGGNTTA TGNATCAN 338

SEQ ID NO:4984

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05947

SEQUENCE DESCRIPTION:

GATCCGCCCC CCTTGGCCTC CCAAGGTGCT GGGATTGTAG GCGTGAGCAC CCCTGGCCTC 60
NAATNTTAC ATTTATATAC TGAATTATAC ATTACATTAT GTACATATGA TAACTAGTTG 120
CTTAAATATT TTAATAAATT ATATCTAATG TAAA 154

SEQ ID NO:4985

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05948

SEQUENCE DESCRIPTION:

GATCATGCAG AGAATATATA TTGTACTGTA GTAATTTTNT ATTTACATTT GTATGATGTG 60
ACATAATAGA TGTGAATGTT AATCACTGNT TGACTATGTT AATAAAGTTG TTAACTATA 120
AA 122

SEQ ID NO:4986

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05949

SEQUENCE DESCRIPTION:

GATCTCTATT TTAATNNTAA TTCTAGTTAG TTGTGCCTNA ACTCCAAAGA AATGNGAGTA 60
TAGTGAGGTA TGTCTGACTC CCACTTCTTA TCATGCTCTG AACTAGTTNT TTATGTTTCT 120
TTGTGTTNCC TTN 133

SEQ ID NO:4987

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05951

01522

SEQUENCE DESCRIPTION:

GATCGCACAC ATGCTTTNTT NNNATATGGA GTGAACACAA TTATGTACCA AATTAACTT 60
 GGCAAACCTT CTATTGCCTG TCCCATGTGC ATCTTATTTA AAATTTCCCC CATGGAAATC 120
 ACTCTCCTGT TGAATATTTT CAGAGCTCTA GGTGTTTAGG CAGCGTGTGG TGTCTGAGAG 180
 GCCATAGCGC CATCATGGGC TGATTTTNA TTACCAGGTC CCCCAGAAGC AGGTGGGGAG 240
 GCTCTGCTTN CTGCTGCCGG TCTNCAAGNC TTGGACCTNT GGACCCTGNT TTGTAAAGNG 300
 TAAATTNGTA TCCTTNAGGG AAACCCAAGT GTCAACCTTG TTTNTTCAAT N 351

SEQ ID NO:4988

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05952

SEQUENCE DESCRIPTION:

GATCGACACA TTCGNATCTN NAATGNGTGC TCTGGGGCCT GTCTGAGTGC CGTGGATGCC 60
 CATTCCCAGG TGTGCTCCAT CCTCTGGTCT CCCCATTACA AGGAGCTCAT CTCAGGCCAT 120
 GGCTTTGCAC AGAACCAGCT AGTTATTTGG AAGTACCAA CCATGGCCAA GGTGGCTGAA 180
 CTCAAAGGTC ACACATCCCG GGTCTGAGT CTGACCATNA GCCCAGATNG GGCCACAGTG 240
 GCATCCCGNA GCANCAGATT GNGACCNTGA GGCTATGGNC GCTGTTTTGA NGTTGGTACC 300
 NTGCGNNGGN 310

SEQ ID NO:4989

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05953

SEQUENCE DESCRIPTION:

GATCTGAAAC AAAATCTTTC TAAAACATTG TTTTAGTTGT CAAAGCACCA ACAGGACATT 60
 TTGGGATGTG AAATGTAATT TCTTGGAATC TGTAATTTGT ACTTAATATT TNAGGCTTGT 120
 ATTTAATATA ATAAATAGGT GTTTGTTAAA 150

SEQ ID NO:4990

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05954

SEQUENCE DESCRIPTION:

GATCATCCCT TCACAATCCC AGAGTGGCAG GCGGGACCAG CCCCATGGTC TGGCTCCTGT 60
 CACCTGGGTC CGTGCCAGCA CAATCTGCCA AAGTTCTAGA GACCCTGTTC CCTTCCCCAT 120
 NAGGTCACAT GCTTCTTCTG TGTGTATTTT TTTTGTGTTT TATGGTTTTT GGAGCAATTT 180
 AAATCCCAG TTGNNATTT TCACAAAAGA AANTAAAATT GCAGTTGCAA GCCCTTTAAA 240

SEQ ID NO:4991

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05955

SEQUENCE DESCRIPTION:

GATCCTTTTT TGTACATTTA AGAATATTTT GATTATATTA AACAAGACTG CTGATTTTGC 60
TACTTTTTTT AAGGGGTCTT CANGTANGTA AAACATACAT CGTAGCTAGA AGAAAAATGT 120
ACCTTAAATT TGCATCTTCC CTCTCATACC CAAGCTGTAA ACAATTGAAA TATTTTGTCT 180
TAAATCACTT GGTTCATAC ATGCTTATTT GTTTTAAAAC CTGTATCATC ANACTCTCTC 240
TCNAAATTTA AAATGCTGTT GAATATGATA CTTTGAGGA GAGAGTGTGC TCAGAACTTA 300
GACGGGGTTT GGTAGGCCAA NGN 323

SEQ ID NO:4992

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05956

SEQUENCE DESCRIPTION:

GATCTTAACC ATCACAAGTT TTTACCCTCT TCCTTCATGC CTGACCTCAA CCCCCTCTC 60
CTCATCTAT TCCTAAATTA GGCTAATAAA GTGAAATTGG TATACTTAA 110

SEQ ID NO:4993

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05957

SEQUENCE DESCRIPTION:

GATCGCTTGA GCCCAAGAGT TTGGGACCAA TCTGAGCAAT ATAGCAAGAC CCCATCTCTA 60
CAAAGAATAA AGAAAAATTA GACTAGCTTG GTGGCATGTG CCTGTGGTCC CAGCTACTCA 120
AGAGGCTGAG GTAGGAGGAT TGCTTGAGCC TGGGAGGTGG AGGCATCAGT GAGCCATGAC 180
CGTACCACTT CATTCCAGCC TAGGTAACAG AATAAGACCC TGTCTAAA 228

SEQ ID NO:4994

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05959

SEQUENCE DESCRIPTION:

GATCAAGCTA CACATCAGTT TTACAATATA AATACTTGTA CTACCTTAAT GATAAGNACT 60
CCTTAAAGTT CCATTGCTA ATNATTAATA CACTGTTTGG GCTGGCCAGT TTTTCATGCA 120
TGCAGCTTGA CGATTGAGCA CAGTCAGGCC TTTGTATTAA AAATGAAANA TGAAANAACA 180
AA 182

SEQ ID NO:4995

LENGTH:300

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05960

SEQUENCE DESCRIPTION:

GATCAACTGG TTTGTGTTTT GCTGCTGCAT TTATCCCAAG TNAACAGGT TTAATCTCCA 60
GANGAAAACC AAAATACCAT GGGATTATG CTGNATTGAC ATCTTGCCCT AAACGNACAA 120
CATCATAGTA ATTTGTCATG GGCAACATGA CCAGNGAGAA GATTTTGTG ATGATTTTAA 180
ATACACTGNC ACGCTACTGT TGGTTAAATT TAAACANGTT TTACCTGCAG NAATTCTCTC 240
ACAAATAACC NGCAATAACT TGAAATGCAT NCCCTTTGA ACACTTCCTT TNCTCATGGN 300

SEQ ID NO:4996

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05961

SEQUENCE DESCRIPTION:

GATCCTGCTC CCTTCTGGGC TCTGACTCTC CTGGAAATCT CTCCAAGGCC AGAGCTATGC 60
TTTAGGTCTC AATTTTGGAA TTTCAAACAC CAGCAAAAAA TTGGAAATCG AGATAGGTTG 120
CTGACTTTNA TTTTGTCAAA TAAAGATATT AAAAAAGGCA AA 162

SEQ ID NO:4997

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05962

SEQUENCE DESCRIPTION:

GATCTCAACA ATATTCTTCC AAAATGGCAT ACATCTTTTG TACAAAGAAC TTGAAATGTA 60
AATACTGTGT TTGTGCTGTA AGAGTTGTGT ATTTCAAAAA CTNAAATCTC ATAAAAAGTT 120
AAATTTTGT CTGAAA 136

SEQ ID NO:4998

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05963

SEQUENCE DESCRIPTION:

GATCTGACCT CAGAATATGC TTTCAAGTGT ATTTCTGACT AGTCCTTTTT AAA 53

SEQ ID NO:4999

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05964

SEQUENCE DESCRIPTION:

GATCTGCATA AAGTNTTACA AACAAAATCC TCTTNATGAG CAACACATTT TTCAGCTGCC 60
AGTCAGACCA ACTGCTGTAA AGAACTTATA TCAAAGTGAG AAGCCACAGA AATGGAGAGT 120
GGAAATATAT AGTGGTCAAA AGANGATTAA GACAGTTTGG CAACTGAGTG ACAGCTCACC 180

CATAGACCAT CTGANTTTNC ACAAACCTGA TTTTTCGGAA TTATCACTAN ACGGTAGCCT 240
NGAAGAAAGG NTATNCTTN CTANCATGGT TACCTGCAGC CAGGTGCATT TGCAAGTGAN 300
GTGTGCTGGT TGANGTCCTC TTNTAAGGGN ATTN 334

SEQ ID NO:5000

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05966

SEQUENCE DESCRIPTION:

GATCTTCCAC TAGATGTCAC CAAAAGGACT GAGAACTAGA GAAAAGGGCT GCGATTTCTG 60
CTCTCCTTGT AAGATTGCAC AAAAGANTAA ATTGCATTTA TCGCTGTTTG CATGAAA 117

SEQ ID NO:5001

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05967

SEQUENCE DESCRIPTION:

GATCCCCCTT CNAGGTAGTG AAAATNAAAT NCGCCGGAGT GTGGCTGCCT TCACCGCGGA 60
CCCTCTGTCT CTCCTGCGCA ACGTCTGAGC ACAGGAGCCC ATCCTTGGCT CTAGGNTTCC 120
NCCGCTGGAA GCCTTCTGTT CANACACCCC TTATGNTCCA AGGCCTGATG TGAGCCAGCG 180
GGGGGTGCAT GGGAACTGN ACCCNACAAC CCACATCCTN CATCCTGACT GCAGCANTGG 240
GGTTCCCCGG CAGGGNTGGG TGAGGNAGGA AGGGGGTCAA GCCTGGNGTN 290

SEQ ID NO:5002

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05968

SEQUENCE DESCRIPTION:

GATCACCGTG AATCCGGCTT CCTCTGAGCA TTCGATGGCC TTAGCACCTC ATCAAGCCAG 60
CACATCCTGC CTGCTGTTGC AGCCTGGCTG GGTATTATTCT TCAGTTACCC TAATCCCATG 120
ATGCCTGGAA CCTTGATTAC CGTTTTACAT CAGCTCTTGT ACTTTNAGT ATATTTTCAT 180
AATGAGTTAT ATTGTCATTT AGACTTTGAA CAGCTCTGGG AAATAGAAGA CTAGGGTTGT 240
TTCTTAAAGT TTAGCTCATG TTATAATAAA AAGTTGNAAT GAAA 284

SEQ ID NO:5003

LENGTH:346

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05969

SEQUENCE DESCRIPTION:

GATCGTCCCT GGTACCCGA CTTTGAATT TGCACCATCA TGTTTCAGTG AAGATGCTGT 60
AAATAGGTTT AGATTTTACT GTCTATGGAT TTGGGGTGTT ACAGTAGCCT TATTCACCTT 120

TTTAATAAAA ATACACATGA NGACAAGAAA GAAATGGCTT TTCTTACCCA GATTGTGTAC 180
 ATAGNGCAAT GTTGGTTTTT TATAAAGTCT AAGCAAGATG GTTTTGTATA AANTCTGAAT 240
 TTTGCAATGT ATTTAGCTAC AGCTTGTTTA NCGGCAGTGT CATTNCCCTT TGCACTGNAA 300
 NGAGGAAAAA NNNNGNATTA AAAGGGTTGC CAANTTGGCA AAAGGN 346

SEQ ID NO:5004

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05970

SEQUENCE DESCRIPTION:

GATCTGCTCG CCTCGGCCTC CCAAAGGATG GGATTACAGG CACCAGCCAC TGNGCCTGGC 60
 TGGCCTCTGN TTTTAAATAA AACNTGACTA GAGTGACTCC ATCTTAAAGT GAGTAGCTAG 120
 GCACTTACAA GGTTCATGCT TATGGCCTGA AAATAACCAC ATCCCAGGCT GACCACCAAT 180
 TATAATTACA GANTATTTAT GGCCATACAG NNCATGNTCC ACCAAGCCTG CAGAATGTCC 240
 AAATNTCCTA AGAATGCAGC CNCCATTACT TANATATANC ATAAATGAGC ANGCTTAGGT 300
 TGCAGGNTTA ATGGTCGTGG ATANCAGCAT TNGNCCN 337

SEQ ID NO:5005

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05974

SEQUENCE DESCRIPTION:

GATCAGGGTT ACATAGGTTT GGTAATAATNA GTGCTGGAAT TNAACTTTCT CCCAGTAGTC 60
 TTAGGTCATG CTCAGTGAAC TTAACCTTTA TCCAGATATG GTTTTCCTTC AGCCTTTCTA 120
 TTCCCTTTCT AGCCAGTGAA AGACCCGCTG CCCTTTGACC TCAGCCCCTC CAAGCCCCCA 180
 AGTTTAAAC GCCACCCNCT GCCACCAGAA A 211

SEQ ID NO:5006

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05975

SEQUENCE DESCRIPTION:

GATCCTCCTG CTTGGCCTC CCAGGGTGCT GGNATTGTAG GTGTAAGCCA CCAGGCCAG 60
 GCTAACCTT TATAAGAAAT AAAGTCTCCT CTCAAATTT AAA 103

SEQ ID NO:5007

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05976

SEQUENCE DESCRIPTION:

GATCCGCTG GGCACGCTGG AGCAGGAGGC CACAGCAGAC GTGGAGTGGC GCTGGCACCC 60

TTACACCAAT ACCGCACGCA AGAGAGTCTT CCTGAGCACC GAGTGAGCAC ACTCACCCT 120
CAGTCAGGAC ATGGACTTGG AACTCAGGAT TGGGCTGTCA TAGACAGACC CACCAGTAGG 180
AACTGTCACA GAATGGCCTG CTGAACTGGG ATGTGGAAT GTGGCGGGTG GAGAGGTCTG 240
AATAAACCGT CTGTGTCATG GCAAA 265

SEQ ID NO:5008

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05978

SEQUENCE DESCRIPTION:

GATCATCAGC AATNCCTTCT GCACCANCAA CTGCTTAGCA CCCCTGGCCA AGGTCATCCA 60
TGACAACCTT GGTATCGTGG AAGGACTCAT GACCACAGTC CATGCCATCA CTNCCACCCA 120
GAAGACTGTG GATNGCCCT CCGGGAACT GTGGCGTGAT GGCCGCGGG CTCTCCAGAA 180
CATCATNCCT GCCTCTACTG GCGCTGCCAA GGCTGTGGGC AAGGTCATCC CTGAGCTGAA 240
CGGGAAGCTC ACTGGCATGG NCTTTCGTGT NCCCACTGGC AANGTGNTCA GTGGTGGTNC 300
NGANCGTN 308

SEQ ID NO:5009

LENGTH:336

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05980

SEQUENCE DESCRIPTION:

GATCCGATTT GTGGAGGATG AGAAAGATGA AGAAGACAAT NAGACGAGAA CACTTCTAAG 60
GCGAGCCACT CCACACCCAG GGGAGTTAAA GCACATGAAA AAGACAGTGG AGAATTTACG 120
GAATGACATG AATGCTGCTA AAGGACTGGA CTCAAACAAA AACGAGGTCA ATCATGCCAT 180
TGACCGAGTG ACCACTTCTG TGTAGAGTTT CACCTCCAAG TTTTACCTCC TGTGTCTTCC 240
TCTGTGTCG AGACGTTTCT GTCTGCTTNC CGGGAGCCTC ACGTGCTCCT TGTCTTAACC 300
AGCCCCGNG NGCCATCTTT CCCGTGGAGT GTTGTN 336

SEQ ID NO:5010

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05981

SEQUENCE DESCRIPTION:

GATCGCTTTT NTGACTGTTT ATCTGTCCTT GACAGTGGCT GTCATATTGA CTACTTTNTT 60
GATTTGTTGG TATTGGGGAC ATTTTAAAGG CTGAGTTATT TTTGAATGTC ATGTTTATGT 120
CATAGACGTA GTTTTCGCAT CCTTGAATTA AACTGCCTTA ACTCCTTTNG TGGTATAAGC 180
AAAACCTCAT GGNCNNNGTC CTGGTATCCT TTTCTGTGT GGTGCGCCTG TGTCCTCTGG 240
CCTAGGGTTA AGTNTGCAAG ATAATACTC GTGAGTATTC AGAATGTNGT NCCTAATAAA 300
TGCACTTGTN GTCTGTCTTC TTTTNN 327

SEQ ID NO:5011

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05982

SEQUENCE DESCRIPTION:

GATCAAGTTT TAAATCCTCC TCCTTCCCTT TTTNCTGGAG TTTTGAGGGC CAGAGTTTTN 60
NTTTTTNTTT TTGTTTTTGT TTTCTTGCTT GCTACTGTTT TGTGGTGTG AAAAGTGGT 120
TAAACCTGAG ACTAACTTAA AACTTCCCTT GACCTTCTNG TTGCCTGTNC ATTTTGTGC 180
CAAGGAAGTA GCTGCCCCAG TGTATGTCTT GCCTTCTCCG CGTCATTGTT GGAAGAGGAG 240
AGATGCATCG AGCAGTCCCA GCTGCTTTTC ATTTATAACG GCTTCTTTCC AGGACCTGAC 300
AGAAGTCAGG GAAGAGTCCC TGGGNN 326

SEQ ID NO:5012

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05983

SEQUENCE DESCRIPTION:

GATCATTTGA CTGGGCTGGA GAACATCCTT TTACATGGCC NTCCCATGGA TGTGCTGTAC 60
ATCTGCTTAA AAGAAAATAA TTACTTTNAT GAGCGTCTTC AAAAGGACTC TTGGTGCAAC 120
AGACTNAATT GGAAGTCAGC TTTTCTAACT GTCAGTGCAC CAAGCTCTGC TGGAGGAGTG 180
ACCAGACTCA CGATTTGGTA TAGTGGGGCT CTCAAGCATC TTCAATTTGA ATGTACATGC 240
TGCTGAGGAG CCGGTGAAGT CATCAGTTCC GCACATCCCT TCTACCTNC AACTGCATGG 300
GAAGCCAAAG TNCTGGTTTT GAAGAN 326

SEQ ID NO:5013

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05984

SEQUENCE DESCRIPTION:

GATCTGGGGG CTAGCAGTGA GTACCCGCAT GGTATCAGCC TGCCTCTCCC GCCACGCCC 60
TGCTGTCTCC AGGCCTATAG ACGTTTCTNT CCAAGGCCCT ATCCCCAAT GTTGTGAGCA 120
GATGCCTGGA CAGCACAGCC ACCCATCTCC CATTACATG GCCACCTCC TGCTCCAG 180
AGGACTGGCC CTACGTGCTC TCTCTCGTCC TACCTATCAA TGCCAGCAT GGCAGAACCT 240
GCAGCCCTTG GCCACTGNAG ATGGAAACCT NTCAGTGTCT TGGNATGACC CTACCNAGGT 300
GGTGGGTCTC CAACANAGCC ACTTGTN 327

SEQ ID NO:5014

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05987

SEQUENCE DESCRIPTION:

GATCTCAAAA AAGAAGGAAT TTCTCCTTTG TTTCTTGAG TTAATGTAAG AATACTTTAA 60

ATCTCTAAGC TTCTGAAGTG TTAGAGGTAG AGATGGTCTA GTAAAGATGT AGTAGTAATG 120
 TTTTATCCAT TTAGCATGTG TTTATNTNTC CATATGTNCT CAAAGGTGAC TTATTGGTTC 180
 ACCTCAGTGA TATTACAGCT AAANNNTCA TTCATTAGCA AAAGGNAAAAG TGGTCTCAAC 240
 CTAACATCAG ANGTGTTTCT NATTATGNTN TNATATTGCG TTGGANTATT GGN 293

SEQ ID NO:5015

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05988

SEQUENCE DESCRIPTION:

GATCTATACA GGTATGTCTG ACGGGACGCA GCACCGTGGG CACGCACCAA ATAGAGTTTT 60
 TAAAAGAGAA A 71

SEQ ID NO:5016

LENGTH:354

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05989

SEQUENCE DESCRIPTION:

GATCCTNTTC TTTCAGCAGG TGAAAAATAA AACGCAGTTC AAATTTTCATG GTTTTAATTT 60
 TCANCTCAGA AGCACTCAAA AATGCAAAAT GTGATAATGG GCACTTGTTT AAAAGANTTA 120
 GTGTATCCAG CCTTCACTCC AGCTGGTTAA AAATGTTGCA CTTNTCAGCA ACCCTACCAC 180
 TTTTCATCTGC TGAAAGGNCA NATGTGCTTG GTTTTACNAT TATGTAATCA CAACTTACTT 240
 TCTGCTTGTN GTNGCTTAAA ATTATGTATT TGGTCTTTGG GCTGCAANTT GGTTTTATGC 300
 TGGATTTGAT GNTNACTGGC NGNNAGTTG ACCTTTGCTG NTATGGGGAA ANTN 354

SEQ ID NO:5017

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05991

SEQUENCE DESCRIPTION:

GATCGGAAGA GGGAGGAGAG GCAGTCTCTT NACAAAATAA AGTATTTTAA TTCATTTNTA 60
 TTTATTAAAT NAAAAACAA TCCCATGGTG TCCCTNTTGT TTGGTGGAAC CTAATGACTG 120
 TNGAAATAAA GTCCTGTNTT TNCCCTAAA 149

SEQ ID NO:5018

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05992

SEQUENCE DESCRIPTION:

GATCCAAAAA CCTCCACCAT AGAGACTGAT AAATTGTAGC TATTGAAGCT GTACTNCTTT 60
 GTACATAGGT GCTTTGGGAG ACTCACTCTG ATTATTGTAA ATTNCTCAC TAGCTACCCA 120

ACATTAAATT CAAATAACAG AGAATTCTA TTGTACAGCC TTGCAACTTT NCTTTAAGTT 180
TAANCTTTNC TNNAATAA AATTTAAGT GGCAAAATN ATTATTAGAN GAGAAAANGT 240
GTGCTCATT TTNANTATN 259

SEQ ID NO:5019

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05993

SEQUENCE DESCRIPTION:

GATCACCTGA GGGGAAAGGN TTGTNTCTCT CCTTTCTGTT GGGNGAGGGG GATGGGGGAC 60
TTTTNTTGGT GGCTCCCACC CATATATCCC TCCTTNACCA TAGTACTCCC ACCCACTTCC 120
ATCACCCATC CAATAAAATG CAGCCAGGTT TAGCCTTTGG CTTGGTCAC AAA 173

SEQ ID NO:5020

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05994

SEQUENCE DESCRIPTION:

GATCTACCCT CTAGTTTACT TGCTCGGGAG AAGAACTGA CTCGTTTTAT TTAGTGCCTA 60
TTTAGCGAGC CCAGAGTAAC GTACATTTGT NCTGTTTTCA ATTTTGTGCT ATCGCAAATC 120
ACAAAAAAC TGTTATCAAT TCACATTCAT CATCAGCACG AGACCCATTT CCTTGTGCTC 180
CTGCCAGCTC AGGNTATNAT GTTTCTTTTT TCATGTTTGC CAGTCTGTTA GGTA AAAANGT 240
CATATGCGGT TGTTTTAATT TGCAAA 266

SEQ ID NO:5021

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05996

SEQUENCE DESCRIPTION:

GATCAAGGTG ATCTGAAAG TTTAATTTT TAATGTTGTA ATGTTATGTT ATTGTTAATT 60
GTACTTTATT ATGTATTCAA TAGAAAATCA TGATTATTA ATAAAAGCTT AATTCTCAA 120
A 121

SEQ ID NO:5022

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05997

SEQUENCE DESCRIPTION:

GATCTAGTTG TATTTCTCAT ACTAGCAATG AACAATTGGC AGTTGAAGTA AAAGCAAA 58

SEQ ID NO:5023

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05998

SEQUENCE DESCRIPTION:

GATCGTAATA TCTCGAACAT TACATAGACA CTAAAAACCT TTAGTTGTAT TTCATCAAAA 60
ATCTGTTCAT GCCCCACGTT GGTTTCAAAA CATACTATGC TTTNCTTCG TGTTATTTCC 120
TATATNCATT TTNGTGTGTA TGTGTATGTC ACAAATATTG ATATGCCTGG TTGTTTATTT 180
TGGTNTGCTA TTATGCCTTT TTCAAAATAT AAAANTAAAC TNGTAANTNC TAACNAAA 238

SEQ ID NO:5024

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05999

SEQUENCE DESCRIPTION:

GATCGAGACC AGCCTGACCA ACATGGTGAA CCCTGTCTCT ACTAAAATAC AAAAATTAGC 60
TGGGCGTGTT GGCACACACC TGTAATCCCA GCTACTCAGG AGGCTGAGGC AGGAGAATTA 120
CTTTAACCTG CGGGGGGAGC CTAGATTGCG CTA CTGCACT CCAGCCTAGG CAACAGAGGG 180
AGACTCTGTC TCATTAAA 198

SEQ ID NO:5025

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06000

SEQUENCE DESCRIPTION:

GATCTTGTGT CAAGTTAACA GGAAGACTGC CCACAGATGA CACTGCATTT GTATCCCTGT 60
GGATGTAGAG TATTGGGAAG GCATTTNTTT AGTTTCATGC CTCAAACCA TGCATTGTCT 120
GTNATGTATC TGCCAGCCT TCTCAGAACT CAATGTTGTA CATTTTCCC TCTAGGACCT 180
GAATTGGTCT TGGAGGCAGC TTTTAGAAAT CCTCTATGTA GTTCCTGTCC ACATGCACTA 240
TATATNGGTT TCTCCNNGNN CCTCTCATGA ATCTGCTCGT TTCTCTACNT CTTGGCTACG 300
N 301

SEQ ID NO:5026

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06001

SEQUENCE DESCRIPTION:

GATCCTGGTA ACTGTTCCAG GATTGCTCCA GGTTGAGAT GGTATTGCTA AATTTAAAAT 60
TAAACAAGAG ACCCAACAAC AGCTTTTAAA GTGTCTTCTA TNGCATTGTA TTTNNNTNAA 120
CTTGCCCCAA TGATAGAAAA GTCTTTTGCT GAAATNATTT TNATGATTTT GGTTTATCGT 180
TTATAAANG GAAAAGANAT ATACAAACTT TGACTTTGGT GACTTTGTGA AGGTTTCTTT 240
AAGATGTGCA TTCCTTTCTG CTTGCNCTCT AGTAAAGGNT TTACTACCGG GAAAAAAAAG 300

N

301

SEQ ID NO:5027

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06004

SEQUENCE DESCRIPTION:

GATCANGAAA AAGACAAAAT CTNTCAAAGC CTTCAAAACC AGGAAAAGAT AAGGAGCCCA 60
GGAAAAGNAA AAGGTAAAGT TCGAAGAANT TTAACCATT TTNACTAGCG ACAGCAN 117

SEQ ID NO:5028

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06005

SEQUENCE DESCRIPTION:

GATCAGGAAT GGTGTGGATT GAGAACTTGT TACTTGAAGA AAAAGAATTT TGATATTGGA 60
ATAGCCTGCT AAGCGGTACA TGTGGGTATT TTGGNGTTAC TAAAAANNA TTTTNGGGAT 120
AAGAGAATTT CAGCAAAGAT GTTNTAAATA TATATAGTAA GTATAATGNA TANTANGTAC 180
AATGGAAAAN ACAATTATAT TGTAATAA TANTCTGGGCA AGCATGGNTG N 231

SEQ ID NO:5029

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06008

SEQUENCE DESCRIPTION:

GATCATGGAA CAGAATCACC CTCTCCTGCA TGTTTTNTT TCTGTCTCCT GCTTTNCTGT 60
TCTTTTCCA CTTTCTCTAT GTGTGAGTTG ACTTGGCTGC CTGTAGCTTC ATCGTCAAAG 120
CTGGTCCACG TGGGNTCAAC TTGGTGCTCT CACTCTCCTC CAGCATTGTT TTTGGCATCA 180
AAGCTAGAAT TAAA 194

SEQ ID NO:5030

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06010

SEQUENCE DESCRIPTION:

GATCNTTTT AAGAGCGTTT CCATACTATG NTTACATTTC CATATTTNTA TGAATAATTT 60
TGCATTCAAT AAACAACCAG ACTCAGAAA 89

SEQ ID NO:5031

LENGTH:174

TYPE:nucleic acid

01533

TOPOLOGY:linear

CLONE:HUMGS06011

SEQUENCE DESCRIPTION:

GATCTTGGAG AGTTTCTCCT TGTGATTTTA GTTCATAAGT ATGTCACCTT TCATTTTATA 60
GNGTTCATCA TTGAGTAATG GATTAAGTGA AAATCCAGGA GTATCCATCT NCAGTTATGT 120
NCTGAGGTGA TAATNCATCC AACATATTTN TNAGCATAAA TATNANGCTT CAGN 174

SEQ ID NO:5032

LENGTH:260

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06013

SEQUENCE DESCRIPTION:

GATCTAAAGC AGCCCTTTTT ACAGTCTAGT TAGGAGAGAG AAAATAATTG CAAATATCCA 60
CTTAGAGGCA AAGAACAATT TTTNATTATC AAAAAGGTTT CTGCACATTG TTGTGGCAAT 120
ATTGTATCTG TTTAGAAAAT GGGCTTTTCC AAAAGCAAAC AAAGATAGGT TCCTCAGGTG 180
ACCAAAACTG AAAATCAATA TTTCCATGTT TCATTAATCA NGGCATAAAA TACAATTAAN 240
GCAAAATATT TTACATTAAA 260

SEQ ID NO:5033

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06014

SEQUENCE DESCRIPTION:

GATCTCTGGA GGTCTGAGGCT GCAAGTGAGT CATGTTCTGT TCACTACACT NCAGCCTGGG 60
CGATAGAGTG AGAACCTGTC TCAAA 85

SEQ ID NO:5034

LENGTH:352

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06015

SEQUENCE DESCRIPTION:

GATCCAGAAC ATGACAACAG AGAGCTGCGT CCACAGGGAA CAAAGCCCTG ACCTNTCTCT 60
CCACATTACC CTTACAAAAA CAGGCCCTCC CCATGAGAGA GCTACACGGC AGGGGCAGAC 120
ACTGTGAGTA TAAGCTACTT TCCTCCCTGG AGTGCTCTAT GTGGGCAGAA CATGCTCTCC 180
TTGCCTCTCC TGGAAGGTGT CTTCTCTATG GCCTGGCTAG AGCTGNAAAA AAGGGACACA 240
CCCNACTTCG GTAAAAGAAA NTAGGGAAAG GCCATATACA NNGNCAGACT TTGTAGTTTA 300
TTTTGTATTT TTTTNTAAAT NNTTNCACCT TTTACATTTA ANGGNAGATT GN 352

SEQ ID NO:5035

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06016

SEQUENCE DESCRIPTION:

GATCTTAATG GCAAGAAGGC CACAGAGGTA CTTTNCCTTN TTNAGCTCAG GAAAATATGT 60
CAGGCTCAAA CCACTTCTCA GGCAGTTTAA TGGACACTAA GTCCATTGTT ACATGAAAGT 120
NATAGATAGC AACAAGTTT GGAGAAGAGA GAGGGNGATA AAAGGGGGAT ACAANNGATG 180
TACAGAAATN NTTTCCTGGC TGGNCN 206

SEQ ID NO:5036

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06017

SEQUENCE DESCRIPTION:

GATCTGGCCA TGTATATGGT AGCTGTGTTT TAATTTGAGA ATCTTGAGGG TAGAGCCACA 60
AATTTCAATT CTNACATTTT CATTGCAAAA GTGACTAGAG AAAAAGAAAT CAGCTTAAAT 120
GAGGTATTAA GTAATGTTTA GAGTCGTAGG TATTAAGTAG AATATAAATC CTTAGAAATT 180
GTCTTTATAC CTTCAAAAAT TATNCTATGC ATTTNTCATA GANCTGTGAT TACAANGNNG 240
TCTGACTACC ATGTCTTTAA ACATATGGCA TCTCTCATCT TTCCTTCCCT TATGGGGGGCT 300
ACATTTNGTN CCATTTTCCA GNAGTAGNCT TTAACCTNCC GGTGCCNNNC N 351

SEQ ID NO:5037

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06018

SEQUENCE DESCRIPTION:

GATCCTGAGA CTATNTGCAT GCTNCTNTCT AAATGATAAT TAANAGGAAA TTTCATGGAT 60
TAACCCATGG GTTAAATGCA GCAAGGAAAC TTACAATGTC CCTNTATATA TAACATGCAN 120
CTTGTTTTGG N 131

SEQ ID NO:5038

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06020

SEQUENCE DESCRIPTION:

GATCCTNCAG GAGATTCAGC GTCTCCGCCT GGAACACGAG CAGGCCTCCC AGCCCACCCN 60
TGAGAAGGCA CAGCAGAAC CCACGCTGCT GGCAGAGCTG CGGCTGCTGA GGCAAAGGAA 120
GNATGAACTG GAGCAGAGGA TGTCGGCCCT GCAGNAGAGC AGGCGGGAGC TGATGNGTCC 180
ANNTGGAAGA GCTGATGAAG TTNNCNN 208

SEQ ID NO:5039

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06021

SEQUENCE DESCRIPTION:

GATCTGAGTG ACAGGGTCAA GTTCTCTTTG AAAACAGGAG CTTTTCAGGT GGTAACCTCC 60
CAACCTGACA TTGGTACTGT GCAATAAAGA CACCCCTAC CCTCACCCAC GGCTGGCTGC 120
TTCAGCCTTG GGCATCTTCA TAAATGGAAA 150

SEQ ID NO:5040

LENGTH:365

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06022

SEQUENCE DESCRIPTION:

GATCTGCTGG GTTTTAAGGA GTGATTTNCT TTCTNCCCCT TGAAGGGGAA AAAGCTATTT 60
CAATTGGTAC ATTTAAAGTC CCCCAACTAT GGGGAGGTAC CAATTCTGGA CANNNTGCCA 120
CTACAACAAC ACTAAACCTG AACTTTTCAA CTCCGTTGGT GGTGGGAGGC AGCGGGCAGA 180
AATTTACTGT TGGCCACTGN CAGGTCTATT TNATATTTCA AAGGAATATT GGGTGCTGCA 240
TATAGGNACT GAAGGGGTCA ATGNATTAAA CCTGTGATTA GGTGNTTTC CTGTCATTTT 300
TGAGAGACTA AAATNGTGGG GGGGCAGATG TNCANAATAC CTGGTACANG TTTTAAAAA 360
NTGGN 365

SEQ ID NO:5041

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06023

SEQUENCE DESCRIPTION:

GATCTTNACC TTATTCAGTC AACTCCCTTT AAACCCCTGG CACTGAAAAC ACCACCTCGT 60
GTACTTACGC TGAGTGAAAG ACCACTAGAT TTTNTGGATT TAGAAAGACC TCNNNCAACC 120
CCTCAAAATG AAGAAATCCG AGCANNN 147

SEQ ID NO:5042

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06024

SEQUENCE DESCRIPTION:

GATCCGTCCT CATTTTATTG GTGATGATGA ATGGGAATAA AATNAGGGGG CTGTCTACTA 60
GAGCCTGGAA TAAATATGCT GCTTTGTGGA TTTTAAAA 98

SEQ ID NO:5043

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06025

SEQUENCE DESCRIPTION:

01536

GATCTGTATG TNAATATCGC CAAGCAGGAT ATCATGTTGT CCCTGGCAAA CCTGGTGAGA 60
CTCAACCAAG CCCTTTTCC CCCAAGCAAG AGGAAAATGG AATCTNTGTA TCAGTGTGGT 120
TTTGATGACA CTGTTAAGTT TNTACTTAAA GAAAATTGGT TTGAATAAAA TGCATAAAAG 180
TTTATANTGC ATTNATTGT NNANNTGN 208

SEQ ID NO:5044

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06026

SEQUENCE DESCRIPTION:

GATCTTTGCC CACCTCTTCC TCAGAGCCCC CACTGAGGGG CCGTAGCCCT ATCTAGGGCT 60
GTGGAAGGAG CAGACTGGTT CCTAACTCTC TCCCTCCTCC TGCCACACA CATCAAAAGA 120
ATCTCCCTA CACCCTTCTC TGCCTTTATT TTTTGATTG TGCAACTTGT AACTAGGTGT 180
TTATGGAGTA AAGGAGAATG GAAAAAGAA A 211

SEQ ID NO:5045

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06027

SEQUENCE DESCRIPTION:

GATCTTGTTC ACAGCAGTGC TTTTGTGAAC AATTATTTAT TTGCTGAAAG NGCTCTTCTG 60
AACTGTGTCC TTTTAATTTT TGCTTAGAAT AGAATGGAAC AAGTTTAAAT TTCAAGGAAA 120
TATGAAGGCA CTCCTNTTTT TTCTAAGAAG GAAGTTGCTA GATGATTCCT TCATCACACT 180
TACTTAAAGT ACTGNGAAGA GTATCTGTAA ATAAAAGGGT TCCAACCTTT TAAANAAGNN 240
GGAANAACT TTTTGGTGCT CCAGTGTAGG GCTATCTTGT NNANAAANTG TCAACAAGGG 300
GGAAANGTAA GNCTGTCNAG CTNGGGGATT GGTCACTTGN NTTAN 345

SEQ ID NO:5046

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06028

SEQUENCE DESCRIPTION:

GATCTTATAA ATTTCTGGG CAAGAGTGTA TGCATACAAA GTTTTCACTN TTGTGAAATG 60
TAATTTTNTCT GTTTTGTCAA NGGGATGAGG TGATTGGAAT TGCTTTNACC ATGCTGCCTT 120
TATTCTCAAA CTGGCAAACCT TAGCATGTTA GGTGTATTAA CCTCATCAGT CTTGAAGAAC 180
ATGTGGCTCA TGAGTATAAC ACTTCTGTAG NGNNCNCCCN NACANAAGTG AAGAATTAAC 240
TTCTCCTNCA GAACAAGTGC ANTTCAGAAG GCAAGCTCTG CATTCTACCT TGNTTGAN 298

SEQ ID NO:5047

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06030

SEQUENCE DESCRIPTION:

GATCGGGGAG CCACAGGGTG TCCAGACCCA GCGGGAGCCG AGGATTCAGG AGAATCTCCC 60
CAGTCAGCTT CAGAGGTGCC CACAGTNTGA GCTCTAGTGT CTNCCAGGTA GGGGGNCAA 120
GCGGNAANCT GNCCGGGCCT NGGGGGTGCA AGN 153

SEQ ID NO:5048

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06031

SEQUENCE DESCRIPTION:

GATCAACATT CGCAATGCCC GGAAACACTT TAAGAAGCTG GAGAGAGTGG ATGGCCCCAA 60
GCACAGTCTC CTTATGCGTT GAATATTGCC AAATNCTCTT NCTGAAAATC CTGAATTGCC 120
TTTTTNGTTT GCATCCTTTA TTTTNAATAT TCATAATGTC GTGTGCTTAA AAGTGGGCTT 180
TGAAGTGTGT GCTGCTTACT CCTNTCATCT TTCTCCCCGC TTCCCAGTC TTAAACATT 240
GGACGNTATT TACTCAGCTA CCCAGTAGAG CTTGAAGCTG ACCTTTCTGA GAAAGTTGGG 300
TATGGTGGTA ACACTTAAAG TAGGTGGTTC CGTGTGGTGT TCTTCANTNN N 351

SEQ ID NO:5049

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06032

SEQUENCE DESCRIPTION:

GATCAACAAA TTGCTCAACC TGCAAAATCT TTGATTAGAC TTAGCCAGCC CATCTGGCCT 60
GCTTTGGGTT TAAAAAATAA AAAAANNTT TTTTAACCNC ANAANTGGAA AAAGGGGAAG 120
GGNN 124

SEQ ID NO:5050

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06034

SEQUENCE DESCRIPTION:

GATCATGACT ACTGGGTGT CATTTCATG GACAGTGCTA TGAAATAAGT ATTTTGGAAA 60
NCAACGGAAA TAGTTTATAT CGATATTCT GATTCAAATT TANCCATCCA ATTGTTAAT 120
TAACCTTACT GATTTTTTAC CTATATCACT TTNCTCTNAC ACTGNAANTA TTAGTTCTAN 180
TAGCATTATG NCANTTACCT ATGTTGCTTT ATGAANGN 218

SEQ ID NO:5051

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06035

SEQUENCE DESCRIPTION:

GATCAATGCT GGCTTCCACG CCTGANTTCT ACCAAGTATG CCACACCAAA AAGGATTATN 60
AAGAAATTGG ACCTAGCATT TNTCGTCACA ATCCAGTGTT TGGAGTCATG TCGTAAAATT 120
GNCNCCNN 128

SEQ ID NO:5052

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06036

SEQUENCE DESCRIPTION:

GATCTCATTG AGATTCCAAA GAGAATCATT TACAAGTTAA TTTCTGTCTC CTTGGTCCAT 60
TCCTTCTCTC TAATAATCAT TTACTGTTCC TCAAAGAATT GTCTACATTA CCCATCTCCT 120
CTTTGCGCTC TGAGAAAGAG TATATAAGCT TCTGTACCCC ACTGGGGGGT TGGGGTAATA 180
TTCTGTGGTC CTCAGCCCTG TACCTTAATA AATTTGTATG CCTTNTCTCT TAAA 234

SEQ ID NO:5053

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06038

SEQUENCE DESCRIPTION:

GATCTGCAAG GCATAGGCAA GCCTCTTAGA GAATCAGAAA AGTGATTGG AAGGAACTTC 60
AGCTGTTACT ACTTTGTTTA AGCAAATCAA ATGCTGTTCT TTAATGTTAC TGGACGTTTC 120
AAATTAAACA CAAGAAAACC TGAAG 145

SEQ ID NO:5054

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06039

SEQUENCE DESCRIPTION:

GATCAACTGA AGACCCCCAA AGGCCCTAC TTGATGGTTT TGAGGGGCAA CATTGACTCA 60
TTTGCCCCNT CCCTCTCGGA ATGTTGGACA AAGGGAATAA AATTGGGGAT ATGTCTACTT 120
CAAA 124

SEQ ID NO:5055

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06040

SEQUENCE DESCRIPTION:

GATCTAAAAC ANCTTCAGAC TACCTANGAA ATANTTNNAC CAAATAAGAA ACAGCACTGT 60
GGAATAAAAT ATACCATTGT GAACATATCT GATGCTGCAA TGAAATGTAA AGTTCCTN 118

SEQ ID NO:5056

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06041

SEQUENCE DESCRIPTION:

GATCTCCTAC TCCATCCAGT CCTGAGGAGC CTTAGGATGC AGCATNCCTT CAGGAGACAC 60
TGCTGGACCT CAGCATTCCC TTGATATCAG TCCCCTTCAC TGCAGAGCCT TGCCTTTCCC 120
CTCTGCCTGT TTCCTTTTCC TCTCCCAACC CTCTGGTTGG TGATTCAACT TGGGCTCCAA 180
GACTTGGGTA AGCTCTGGGC CTTACAGAA TGATGGCACC TNNNNNAACC CTCATGGGTG 240
GTGTCTGAGA GGCCTGAAGG GCCTGGAGCC ACTCTGCTAG AAGAGACCAA TAAAGGGCAG 300
GTGTGGAAAC GGCAAA 316

SEQ ID NO:5057

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06042

SEQUENCE DESCRIPTION:

GATCTATTTT TTNCACTTG TATAACTTTG NAATAAATNC CTCATCCCTT AGACTAAGAG 60
AGTGGGTGTC TGTGAAAATN GTNTTCTCCT TCATAATACC TAAATN 106

SEQ ID NO:5058

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06043

SEQUENCE DESCRIPTION:

GATCGAATTT AAAAGAACAA TGGAACCCTG ACTACGTTTC AACAAAAATA AAAGTNGTTT 60
TTTTCCCTCC TAAA 74

SEQ ID NO:5059

LENGTH:325

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06044

SEQUENCE DESCRIPTION:

GATCTCTGGC GCTGGCAGAA GCAGAATCCT TCAGGCTTTG GCANGCAAGC NTGAGGACCC 60
TCCCCTACCA AGGACCAGGA AAAGCAGCAG CTGCCTGCTC TCCAGCCTNT GGCAGGAACT 120
CAGGGCCCTG GAGCTGCTGG GGCCAAGCCA AGGCCTNCCC TACCTCAAAC CCCAGCTGGG 180
CCCGNTTAGC CCACCAGGCA TGAGGCCAAG GGCTCCACTG ACCAGGAGGC CGAGGTCTCT 240
AACTCTTATN TTCCACAGGG TCCAAGAGTT CATCAGGACC NNNAAGAGTG AGTTNAGGGG 300
GGGCAAGGNT TCTNGNAACA AAAGN 325

SEQ ID NO:5060

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06045

SEQUENCE DESCRIPTION:

GATCTGCCTN TAAAGCCAGT TTAAGAAGCA CTNATGANAA CACCTGGACT GTGTATAGNG 60
ATTGCACATT CCTTATCCTT CAGCTNCAGG ACAGGTGGAG CAAATGN 107

SEQ ID NO:5061

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06046

SEQUENCE DESCRIPTION:

GATCTCAGAG CATTTC AATT AGGGATGCTC AAACGCAACT TTTCTACTT CCCCATTTCA 60
GGTGTGAGAT GTAACCCACC TTNACCATAA ATTGGCTTTN NATAGTGCTA AA 112

SEQ ID NO:5062

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06047

SEQUENCE DESCRIPTION:

GATCACAACA TACAAATTCA ATTCAGTGCA TGCTTTAGGT GTTAAGCATG AGATTGTACA 60
TGTTTACTGT TAGGTCCTTG CATCTGTGGT GCTAGGTGAG TATGAGAAGA TGCAAGGAC 120
TGGACGTATT TTGTTGCCTA AAAAAAAAAAG GNTGTTTGTN GCGGTTTTAA ATATGCTTAT 180
TTNGTGTGTC NCNNNCTACC TTTACACAC TGTGCTTTG TGGGTTTGT TNGNATGTGC 240
GTGTGTTATA CAGTNGTTAA ATTTCCNTGC AGAAAAATAA ATGTCCNGAA TTCTCAA 298

SEQ ID NO:5063

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06048

SEQUENCE DESCRIPTION:

GATCTCCCAG TGAGCCATCA CGATGCCCGN TTTCAAATAA ATNTTAATAT TGTCACCAGA 60
AA 62

SEQ ID NO:5064

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06049

SEQUENCE DESCRIPTION:

GATCTNCTGC CATGATGCCT ATTTGGTGTN TTTCTAATTA AAATGAAATC ACAA 55

SEQ ID NO:5065

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06050

SEQUENCE DESCRIPTION:

GATCGCATCA TTGCACTCTA ACCTGGGCAA CAAGAGCAAA ACTCCATCAA A

51

SEQ ID NO:5066

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06051

SEQUENCE DESCRIPTION:

GATCTGCTGA AAGGNAAGCA AGAACTATAA GGAGGNTGTG TAGTTGCAAA AATGGCTCCA 60
TCGGTAACCT AAGCTTCAGA ATGTTATGAC ATACAGAAAA TCAAAGATGC TGTGTCTTAG 120
CATTGAGTAA TATGGGTGGT GCTGTCTGGT CAGATTCAGT NAACTGTTCA GAACAAAATT 180
NCCTCTGAAA TNCNGTTGAG AAAGNCTGTN 210

SEQ ID NO:5067

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06052

SEQUENCE DESCRIPTION:

GATCAAGTCA GCATTTGGGG TCGGGATTTG GGCAGGGAAC TTTGGGGTGC AAATATCTGG 60
TGAAACCACC AGAGAATTN TTTGTCAAAG TGACATGTAT AATTTTAGTT GAGACGTGTT 120
TGTGTATATA TGTGTATTTG CCTTTNTTGA GTAGCACGGT TATTTGCTAA AATAATTGTC 180
AAAAAATTGC TCTGTCGGTC GGTCTTTGAT N 211

SEQ ID NO:5068

LENGTH:230

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06053

SEQUENCE DESCRIPTION:

GATCTAGAAT CTTGTCCTCA GGCTTCTAGG GGNTTATCTG AGTCTTTTAT CTAAGACAAA 60
TGCAACAGTT TTCTTTTCAA ATGCTCAGAA AAATAGTGAT GATGATGATG ATGATGATGT 120
TCATTTGTAT ACATTTACAT GCAACCACAG CATTGTTTT ATTATAATAC CTTAGCAATA 180
ACTAATGAGA ACATGTTAGG TGATGTTAAA TAAATAATT TTTTCCCAAA 230

SEQ ID NO:5069

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear
CLONE:HUMGS06054
SEQUENCE DESCRIPTION:
GATCGCACGG ATGCAGCAGG AAGACCAGGA GGGGCCGCCT ACGTAGCCCC AGCTCCAGCC 60
ATCCACCCCN CAGCCCTTN CTNCAACGTC ACCANTAAAT TTNTTTTN 108

SEQ ID NO:5070
LENGTH:339
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06055
SEQUENCE DESCRIPTION:
GATCACTGTT AATGATTTGC CTGTGGGACG CTCCTGGAT GAGGCTCTGC GGCTGGTCCA 60
NNNNTCCAG TACACAGACG AGCATGGGGA AGTTTGTCCC GCTGGCTGGA AGCTGGCAGT 120
GACACGATTA AGCCCAACGT GGATGACAGC AAGGAATATT TNTCCAAACA CAATTAGGCT 180
GGTAACGGA TAGTGAGCTT GTGCCCCTGC CTAGGTGCCT GTNCTGGGTG TCCACCTGTG 240
CCCCACCTG GNTGCCCTAT GCTGACCCAG GAAAGGCCAG ACCTGCCCCT CCAAACCTCA 300
CAGTATGGGA CCCTGGAGGG CTAGGCCAAG GNCTTTTTN 339

SEQ ID NO:5071
LENGTH:102
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06056
SEQUENCE DESCRIPTION:
GATCACAACC TCANCNAAGA CCACGANGAA GCCCNCAACA GCCACGCCCA CGACTGCCCG 60
GACGAGGCCG ACCACAGACG TAAGTGCAGG TAAAAATNGA GN 102

SEQ ID NO:5072
LENGTH:231
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06057
SEQUENCE DESCRIPTION:
GATCGCCTTA ATACCAGAAA TGATTAGAAG TGCTGATTTA GATTCAACAA ATACCATATG 60
TCCTTATCAT TTTTGTAAAG AAGAAATTGG TTAAGTCCTA ACTTTCAATG TGTACCCAAA 120
TACTTGTATT TTATGCTTTT NATAAATGT AATTTTCAGC ATTANTACAC ATCCGATTAT 180
GCCTTATTTA TATATGGNGG ANTAAAGGTT ACCATGTTTA TACCTGTAA A 231

SEQ ID NO:5073
LENGTH:250
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06059
SEQUENCE DESCRIPTION:

GATCTTGGTT TCATGTGTTT TTGAAAGTGT TATTGTTTAA AAAATGAAAA AAGCATATNT 60
 GCTAAAGAGC TGTCAAGGTTT TCATTACTGA CTCTGTANAA TACACTGNTC TTTGTGTA CT 120
 GTGTGTTATT TTGCCAGCT NGCTGCATTA GCCTTCAAAN GTATTGGGA AACCTNAAGG 180
 ATGAACCTAC AGTTTCTNGC AAAGGTACCA TTNCCTTCC TGGGGGTANT TTNGGTCCN 240
 GTNAACTGGN 250

SEQ ID NO:5074

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06060

SEQUENCE DESCRIPTION:

GATCCTCGCG GGCCTCGGAG AATCCCCCA CTGCCATGCC CTCCCCACG TACCA GTGCA 60
 CTAAGGCGCA CTTGGCCGAA CTTATGGTCC AGGCAGGCC AGGCCTCCGT GATGGCCGTG 120
 GTGTTGCTCA GCATGCACAC CGNCCGCTGC ACTTTGGCCA GGTCTCCAC AGGGACCACC 180
 GTGGGGGGCT GGTAGTTAAT NCCACCTGT CAGAGATGGG CAGCATAGAA TGAAGTTTAT 240
 ATTGGGCTCA GAAATGGGA GCTCATTAAA AATCAGAGCT TGTGGNACCA GTNCAAA 298

SEQ ID NO:5075

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06061

SEQUENCE DESCRIPTION:

GATCACTGTG TCAAATGGAT GGGAAATNTT ATNTTAATAT AAACAGTAAA ATAGCATTGT 60
 TTTCACTTGC AGCTTTNAAA 80

SEQ ID NO:5076

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06062

SEQUENCE DESCRIPTION:

GATCTGTATG TNCAATATGG TAGCTACTAG CTACATACAT CTATGAGCCA GACACTTAAG 60
 CACTTGANGT TTGGCTACTG CACATTGACA CATGGTGTTA GTAAAANCAT AACTGGATA 120
 CACTGGATTT TTGGNCTTAG TATGGAAAAA TATATTANGT ACCTCANTTT AAAAATACTT 180
 ATTACATGTT AATATTTTGG TTGTANNNNN 210

SEQ ID NO:5077

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06064

SEQUENCE DESCRIPTION:

GATCATGTTG TATTTNATTT TACTTATTTT TTTTACATTT CCCAAGGCTC TGTCATCCAC 60

CTTTTCATTA AATCATTCTA CCAATCTCAA A

91

SEQ ID NO:5078

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06065

SEQUENCE DESCRIPTION:

GATCAATGTA AATCCTCACC TGCCCTTTGA AGAGCCAATA AGGGCATCTT TGTCTTTAAA 60
TACAGCAAAT GTTATTGAGA TTTTGTACTT GTCTATCTGT TTACCTCAGT GTAGATGATA 120
TGAGGATGGN ATAACATGT AAATTGTTTT TGAAAATAAT TTGTTTCCCC ACAACTTTTG 180
AAGGTTTTAT TTGTNGTTGT TATTACTAGT TCAGTCCCAA ACTNACCCTG TCCTTTTCAG 240
AGAGCTAATG GCCATGCTTT NCTCAAAGG AAAGAATAAT TNATTGGAA TGANAGTGGG 300
GATTACTTTG CATAANN 317

SEQ ID NO:5079

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06066

SEQUENCE DESCRIPTION:

GATCTTTATT CTAACCTTTT TTTGTAAAN ATATCTATTG ATTTCCATAT GCAATAAACC 60
TTTTTTTCAG AGAAA 75

SEQ ID NO:5080

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06067

SEQUENCE DESCRIPTION:

GATCGACCA CTGCACTCCA GTCTGGCGAC AGAGTGAGAC TACATCTCAA AAAAAANGC 60
CGCAATTTN CATTCGNTTC ANCAGANCTC TGCCATTCTA AACATTCTA AACTTTTACT 120
CTCAATTNCT GTACTTAAN 139

SEQ ID NO:5081

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06068

SEQUENCE DESCRIPTION:

GATCTCATTT TCAGTTTAAG TAACTNCTGT TACTTAAGTG ATTGCACTTT TCTCAAATTG 60
AAGTTTAATG GAATAATAGT TCTCAGGATA GTATTTTGTA AATAAAGATG GNCTTGAATA 120
TGAAA 125

SEQ ID NO:5082

01545

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06069

SEQUENCE DESCRIPTION:

GATCCTACCA TGGCAAGAAG AGCTTCGAGA CTTTCTCTCA CCGCCGCTCT TGCCTGGTGA 60
GGCCTCTAAT GAATGATGAA GGCCTGAAGG TCAGATACCC CCCGAGCCCG GCCAAGATGA 120
CCCAGCACTG AGGAGGGGTT GCTCCGCCTG GCCTGGCCAT ACTGTGTCCC ATCGGAGTGC 180
GGACCACNT NACTGGCTCT CCTGGCCCTG GGAGAATCGC TCCTGCAGCC CCAGCCCAGN 240
CNCANTNCTA TGNTGACCTG CTGACCTGTG CACACCCNAC TTTN 284

SEQ ID NO:5083

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06070

SEQUENCE DESCRIPTION:

GATCTAACCA TGACCTGTTT CACGTCATTC ACATTCAAAA TGAATGAAGG GATGANCATT 60
TTCTCTGGTC ATTTTATT ATTTATACCC TTTTGCAAAT NCTAGTAGAG AATGAAGTGG 120
AGGAATAAGT TATAAATGAA CAGTGGCTTA TGACTCCAAG AGTTAATCGT GTTATTTTGG 180
TAGCTGTCTG TGTAGGTGTG CATGTNGTTG CGAGTTTGTA TTGNGNTTCA CAAGCAAAAN 240
TTATATNATG NTTCAACTTT CTGGAATGC TTNTAATTN 280

SEQ ID NO:5084

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06071

SEQUENCE DESCRIPTION:

GATCATAATA TGAATNTCCC ACTTATTAAT AGCCTTTTAA TAAATATATA ATTAATTTCA 60
AA 62

SEQ ID NO:5085

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06072

SEQUENCE DESCRIPTION:

GATCTATAAT CACCAGTGCA CTCCACCCTG GGTGACAGAA TAAGACCCTG GCTGAAA 57

SEQ ID NO:5086

LENGTH:68

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06074

SEQUENCE DESCRIPTION:

GATCTCAGGA TTNAAGCACA GTGCCTGGCA TACAGCAGGT GCTCAATAAA TACTTATCAA 60
ATTGGAAA 68

SEQ ID NO:5087

LENGTH:269

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06075

SEQUENCE DESCRIPTION:

GATCAAGGTT TAGTTTAACT TCCACTGTTA AAATAAAGCT TACATAGTTT TCTTCCTTTG 60
AAAGACTGTG CTGTCCTTTA ACATAGGTTT TTAANGACTA GGATATTGAA TGTGAAACAT 120
CCGTTTTTCAT TGTTCACTTC TAAACCAAAA ATTATGTGTT GCCAAAACCA AACCCAGGTT 180
CATGAGTATG GTGTCTATTA TAGTGAACAT GTACTTNGAG CTTATTGGTT TTATTCTGTT 240
ATTAGATNTT TCAGGGTGTA AACANGNNN 269

SEQ ID NO:5088

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06076

SEQUENCE DESCRIPTION:

GATCGGCAGG GCAGGAATCT GAGCGCTGGC CCCGTGGTGA GGCCATGTTC TCATAATCAG 60
GCTCCAGCCA GAAAAATAAG AAACACCGCA ACAGGCTTCA GTATCAGGGC TGAAACTGCT 120
GGATGANTAA ACTATTTATT AAAAACGGAA A 151

SEQ ID NO:5089

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06077

SEQUENCE DESCRIPTION:

GATCTTGGCT TAATTTAATG TATTAATCTG TTTGTGCAAA CATAGTACCA CCATTTAAAA 60
ATGTTAGGGA GATGAGTTGC AGTTTTTATA ATAGATTTTT TTAAAGTTT GGTATTGTAA 120
ANCATTCACA CCTCTGTCCC TCAAANTTGN TAATTACGGT TAAAGTGCAG TCATTTGTGG 180
NTAGAATCTT GTTNGTTGC TNCCATTATT GGGGTCCNCC NAAGGAATTG AGGAGAGGNC 240
CGAATAGAGC CCAATTCNTA TAANGAN 267

SEQ ID NO:5090

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06078

SEQUENCE DESCRIPTION:

GATCTCAGGG AAAAATTTTA ATCACTGTGT ATAATGATAC TGAACCTTGA TTAATAACAG 60

AAATTCAGGA TGTAAGCCA CAGAATGGGN TTTATTAATG TGGGATACCT CAGACTGTTT 120
GTTTTCTTTC TGGGNAGCAA AGTGTGTTCT ATAATGAATA AATATAGAGT GGTTTTAAA 180

SEQ ID NO:5091

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06079

SEQUENCE DESCRIPTION:

GATCTTCCTG GNACCCTGAG GGTGTCCTC CAGCAGGGGC TTCTNGACC CCTGTCTGAG 60
GGGTCGCGTC TTAGTGGGCG GGATTCTTTT CCCTTTGAAT AAAAATGGAT TCAAACCCAA 120
A 121

SEQ ID NO:5092

LENGTH:378

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06080

SEQUENCE DESCRIPTION:

GATCTGTNTT GTTCCTGCAG CAAAAATCCT CTATGGACAT AGGAGGTGCT GTGTCCCATG 60
CCCTCTTGCC CTGNCAAGTGT CCCATGGGCC CCCTTCTGCT CCCTGCCCCC TCCCTGCTAC 120
TGCTGATGCA CTGTCCTCTC CCTGCAGCCC CTGGCTTCN AGCCTTCCTC CTGACCCCTT 180
CCAACAGCCT TGGAACCCA GCTGCCACCA CCCTNTGGGT CGGACACTGG GACCCANTGG 240
NCCAGTCTTG GNTGCTGNTT ACCCCTAGCC TTGATGNCTG CCCAGGGGAC CCCNAGCCCN 300
CTTCNGTTGN CNTGCAGCTT TAACAGAGTG AACCATGTGT ATTGTACAGG CGGGGGTTGT 360
TAATTGNAGA AAACNNAN 378

SEQ ID NO:5093

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06081

SEQUENCE DESCRIPTION:

GATCACACCA CTGCACTCCA ACCTGGACAA CAGAGCAATA TTGTGTCTCA AAAAATAATA 60
AATAAATAAA TAAATAGTAA A 81

SEQ ID NO:5094

LENGTH:302

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06083

SEQUENCE DESCRIPTION:

GATCACCCGG AAGTTCAGGC TGAATTCTGA AGGCAAACCT GAGCAGACGG TCTCCATGGC 60
AACCACGACA CAGCCAATNA CTCAGCATCT TCACGTCACC TACAAGAAGG TGACCCCGTA 120
AACCTAGAGC TTCTGGAGCC CTCGGGAGGG CCTGGCTACT GTGCCTCAAC GGTTCGGGCTC 180

CTCAACAGAC AGTCCCTGCG GCAGAAGTGG GTGTGGCCGT GAGCCTCTGC AGGCTCAAGA 240
GTGTTGTCCA GATGTTTCTG TACTGGCATA GAAAAACCAA ATAAAAGGCC TTTNTTTTAA 300
AA 302

SEQ ID NO:5095

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06084

SEQUENCE DESCRIPTION:

GATCTGACTT CAGTTGTGCA GATNACAGCA TGATAAATGA GTCGGGACCA TCAAA 55

SEQ ID NO:5096

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06085

SEQUENCE DESCRIPTION:

GATCAACAGA TGCTGGCAGA AATGGCTGTN TCCCTGGCCT TGAGAAGCAG ATNCAGCTCC 60
CTGTCCCCAG AGGCCTACAG TCATATGGTA CCNCCACAGN CTCGCTTGN TGCGCTACAG 120
GAGGCGGCGT CANGGAAGCT TNCTN 145

SEQ ID NO:5097

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06086

SEQUENCE DESCRIPTION:

GATCTCATGA GAATTCACCTC ACTATTATGA GAACAGCATG GGGAAAACCN CTCCCATAAT 60
TCAATCACTN TCCTCTCTCC ACACGTGGGG ATTACAATTT GAGACAAAAC CTGGGTGGGG 120
ACACAGAGCC AGACTATATC AGGGGGCTTA TGTTTATCCA NTTGTNATGG CCTCACTTNT 180
TGNAAGACT GTNCTNNCN 199

SEQ ID NO:5098

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06087

SEQUENCE DESCRIPTION:

GATCACAGAC TGTAGAGTTT TGAAAAGTCA CTTTTATTTT NAATTATTTN ACATATGCAA 60
CATGAAGAAA TCGTGTAGGT GGGTTTTTTT TTNAAATAAC AAAATCACTG TTAAAGAAA 120
CAGTGGCATA GACTCCTTCA CACATCACTG TGGCACCAGC AACTACTTCT TTATATTGTN 180
CTTCATATCC CAAATTAGAG TTTACAGGGN CAGTCTTCAT TACTTGTAATATAAANTATG 240
ANTCTCAAA 249

SEQ ID NO:5099

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06089

SEQUENCE DESCRIPTION:

GATCTGCAGT CCTGCCTCTG CCACAGTCTC TCTGTTGTCC CCACATCTAC CCAACTTCCT 60
GTACTGTTGC CCTTCTGATG TTAATAAAAAG CAGCTGTTAC TCCCACAAA 109

SEQ ID NO:5100

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06090

SEQUENCE DESCRIPTION:

GATCACGGAC GTGCAGCTCG CCATCTTCGN CAACATGCTG GCGGTGTCGC TCTTCTTGCT 60
TGTCGTTCTC TATCACTACG TGGCCGTCOA CAATCCCAAG AAGCAGGAAT GAAAGTGGCG 120
CTTTCTCCGN CCCAGGGTTC CAGGACATAG TCTGAGGCAA GATGGAGGGT ATGTGGGGCC 180
TTCACACTTC ACTTCATCCC TTCTACCCAT CACANCATAC AAAGCANCTA CACCTGGATT 240
TTTCCAAACA ACTTTTATTT CCTCAGAGTC NGNNGNAATN CTATGGNNCA AGANGCTGNC 300
ACTGAATAGG GCCNAGTATA GGGGCTTGCT TTTCTACTCT N 341

SEQ ID NO:5101

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06091

SEQUENCE DESCRIPTION:

GATCTGGTAC CGCAGTAGCG CCGCCGCCGC CGCCGNCGGA GCCTGTCGTC GTCCTGTCCC 60
CAGCCTNCTT GTGTCCCGTG AGGTTGTCAA TAAACCTGCC CTCGGGCTGC CGGCAAA 117

SEQ ID NO:5102

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06092

SEQUENCE DESCRIPTION:

GATCCAAAAG GACTCATCTA AAACACAAGT TGGGTAGAGG AGATAGGTGA GTACTATTAT 60
ATTATGTTCA TGGAAAATNA GTTCATGGGC TTTCCTCTAA TTTTATTTT AAAAATAAAT 120
GTAAATATTA AATAAAATTT TTAAATGAA A 151

SEQ ID NO:5103

LENGTH:86

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06093

SEQUENCE DESCRIPTION:

GATCAGCTTT TAATATCTGT CAAATAAAAA TTGAAATTGA AGATGGTATA TAAGATTTC 60
GNAAATAAAC TACTCTGAAT ACTAAA 86

SEQ ID NO:5104

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06094

SEQUENCE DESCRIPTION:

GATCTAATCC GTNTCCACACA TGTCAGGG AATCCNAGGT CTGCCCTGAG CTCCTGTGT 60
CCTTGGNAAA GTCGGTTAAT CTCTGGGCCT CACTGTCCTC ATCGCTGAGC TTGGGGACTT 120
GTAACANATG ATTTCTAAGT ATCTNCCAGC TTTGANTAGA GCATTGTNT TGGGTGGCCA 180
GGCTTAANGT TTAAGGCAT AANGAAAANN 210

SEQ ID NO:5105

LENGTH:242

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06095

SEQUENCE DESCRIPTION:

GATCATATTG GTCATGTCTA TTGGTGTATT ATTCAGTAT CACCAATGTT TTCAGAAATA 60
CAGTACTAAT TCATCATTAA ACTCTTTGAA GTTAATATTT TCCTGCCTTC TAACCTATAG 120
ACTCAACTAT GTATCTGTAG TTTTGGGAA TGGGGTGGTG TTTTNNCTT TGTGTTGGGA 180
AGTTATTGAG AAAACCTATA TAATANAATT NAANATTATA GTTTTAAAAA AANNNCANN 240
NN 242

SEQ ID NO:5106

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06097

SEQUENCE DESCRIPTION:

GATCTGCCCT TGGCCTCCCA AAGTGTGCGA ANNACAGGCA TGNGCCACTG AGCCTGANCC 60
ACTTTAGCTA TTTTAAAAA TAGGACCTAT TGTTTTGGAT TACTATCTGA GAATTCATG 120
GATTCCTCC TGGGTATAGG AGNTAAGAAT ACGTTTAATT CATAACTTTT ATATTANCCA 180
ATATAGTAAA AAAATAAAGC TCACACATAC ANAANCAAA 219

SEQ ID NO:5107

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06098

SEQUENCE DESCRIPTION:

GATCTATTTT TTGGGCTTTT AATATTCTGT TCCATTGACC TATNTCNCTT NTCTTTTACC 60
AATACCGCAA CATCTTG GTT ACTGTAGCTT CACGGTAAGT CTTAAACTT GGATATTGTC 120
AGTCCTCCAA CTATGTTCTA CTCCTTCAAT ATTGTGTTGG TTATTCTGAG TCTTGNNGGG 180
TCTCCATATA AATNGTAGAA TTAGAAAAAA AANNNGGGG GGGANN 227

SEQ ID NO:5108

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06100

SEQUENCE DESCRIPTION:

GATCAGTTTG GACTCTGTAA CTCATAGGTG CATTCTTTT TTCTTTGGTG TCTCACAAAT 60
NACCCAATTG TTGAATAAAA CTATAAATAT GTTAATACCA GCTTTTCCA ATAAATAAC 120
AAATGTTACA TCAA 135

SEQ ID NO:5109

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06101

SEQUENCE DESCRIPTION:

GATCTNATGG GTTAAAAAGN GCGGCATTTC CCTCCNCTT CTCCCTCTCC TGCACCATGT 60
TAAGATGTGC CTTGCTTCCC CTTTGCCTTC GACCATGATT GTAAGTTTCC TGAGGCCTCC 120
CCTGCCATTC AGAACTGTGA GTAAATTAAA TCTCTTNTCT TTATAAA 167

SEQ ID NO:5110

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06102

SEQUENCE DESCRIPTION:

GATCTTCTGC CACCATCAGG GNCAAACGGG TGCAGGAGGA AAGTCACTGA TGCCAGATG 60
TTGTCNTCCT GCACAGCTAC AGGTCCTTAA NAAAAAGTNT N 101

SEQ ID NO:5111

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06103

SEQUENCE DESCRIPTION:

GATCTGTGGC TACTTTTACA CCACAACAGA GTACCATGGT TCTGACAGAG ACTAGGAGAC 60
ACAGTCTAAA TGACTTCTGA CCTGGACCTT TACTGAAAAT CCTGCCAATC ATTCTGTTGG 120
CAAGANTGAT GTATTACTTT TAGCAATAAG AAACAAGTAA CCTTTGCAGA AA 172

SEQ ID NO:5112

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06104

SEQUENCE DESCRIPTION:

GATCTCCAAA GCTGTCCTCT GCGTCCAGG AGTGCCTCTT ATGTGAGTCC TAATAAACTC 60
ATCTATTAC CAAA 74

SEQ ID NO:5113

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06105

SEQUENCE DESCRIPTION:

GATCTNTTCC CACCCATAAA AAGCCCAGAG AACAAAAAGT TGGCCCAGGA AATGCAATTN 60
GGAAGCTGAA GAAGATTATA GTATTTNTNG CAGTCAAGAT TTGGAAAGTT ACCNACTAAG 120
AAGCTACAAT ATNN 134

SEQ ID NO:5114

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06107

SEQUENCE DESCRIPTION:

GATCTTGAAA TNAACCTAAG ATTTTCCTGG GGAAATGTTC AGATACAGTT TTGTGAACTG 60
TAAATCAAAA TACCTTTTNC TACAGTTTAT CTTNATNTC CTGCAAATTT AGGAACATAT 120
TTCCTCGTTT NCACATTGAA TCTTAAGTTT AAGCNCCTCA TTTGGNATTT NGGCAATATA 180
TGNGAN 186

SEQ ID NO:5115

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06108

SEQUENCE DESCRIPTION:

GATCTTTNTG ACTAGAGTTA GTGTCCTAGG AAAACCAGAA CTCAGAACTT GCCTCCATGG 60
TTGAGTAACA AGCTGTACAA GAACCCCTTT TATCCCTGGA AGAGGCTGTG TATGAAACCA 120
ATGCCCAGGG TTTGAAGGGT GTTAGCATCC ATTNCAGGGG AGTGTGGATT GGCTGGCTCT 180
CTGGTAGCAT TTTGTCCTNA CACACCCATC TACTATGTCC AACCGGTCTG TCTGCTTCCC 240
TCACCCCTTG CCCAATAAAG GNCAAGNNCT TCAAA 275

SEQ ID NO:5116

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06109

SEQUENCE DESCRIPTION:

GATCGAGTGG TCTGTGTTCC TATTGCTGGT GGGGTGATAG GGTGGGCTAA AAACCATGCA 60
CTCTGGAATN TTTTGTATTT TCTCCAGTA AAGCTTTTCT TCTCCGAAA AAAAAAAGA 120
AA 122

SEQ ID NO:5117

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06110

SEQUENCE DESCRIPTION:

GATCACAAAC TACAGCCTGC AGGCCAAATC CAGCCACAG CCTGTNTTTG TAAATAAAGC 60
TTTGTGGAN CAAAGCCACA CCCCTTAATC TAAA 94

SEQ ID NO:5118

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06111

SEQUENCE DESCRIPTION:

GATCTGAATC CAGNTCATTT GAGGGAACCC CCAAGTTCT CTGGTTGTGG CCTCTTGAAT 60
AAACCTCTCA CATTTGAAAA 80

SEQ ID NO:5119

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06112

SEQUENCE DESCRIPTION:

GATCTATTAT CTAGCTGCAA AGCCTGGCTT TGNTTTGNAA TTTTGTA AAA ATTTCATGGC 60
ACCCAAGGTT TCTGNTTCTG ACCCAGCAGT GGTCCTGAAG AGAGCTGATG GCAAGTNTTG 120
TAGTCATTTT GATTTTAATT GAAGGGTGAG CATAACCTTG TGAACCAGCA CTAGCTTGTT 180
CCAAGCTGGA ATTTATCTAA TCTATTTTGG TGTTTAAAAA AGCTGTACCT ACCAAATAAA 240
TAAATAGTTT ATAAAAATGTA TTAATAAGG TAAA 274

SEQ ID NO:5120

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06113

SEQUENCE DESCRIPTION:

GATCTTTGAA GATATCCTCA ACGTGAGGCT CTNCTGCCAT GAAGGTGAAG ATTAAGTGCT 60
GGAAACGGCGT GGCCACTTGG CTCTGGGTGG CCAACGATGA GAACTGTGGC ATCTGCAGGA 120
TGGCATTAA CGGATGCTGC CCTGACTGCA AGGTGCCCCG CGACGACTGC CCGCTGGTGT 180

GGGGCCAGNG NNCCCACTGC TTCCACATGC ATTGCATCCT CAAGTGGCTG CACGNACANC 240
AGGNGCAGCA GCACTGNCCC ATGGTGCCGN CAGGAATGGA AGTTCAAGGA GTGAGGCCCG 300
ACCTNGNNTC TAGNTGGGAG GGGNATNCTG AAGACTTCTT TNCTTNATTN 350

SEQ ID NO:5121

LENGTH:360

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06114

SEQUENCE DESCRIPTION:

GATCTTATTC AGTCTGCTGN TTTGTATAGT GTGATGACCC TAGTAAGCAC ATATTTGGTA 60
GCCTTTGCAT ACAAGANTGT GAAATTTGTT CTCAAGCACA AAGTAGCACA GNAGNGGGAA 120
GATGCTGTTT CCAAAGAAGT GACTCGAAAA CTTTCTGAAG CTGATAATAG AAAGATGTCT 180
CGGAAGGAGA AAGATGAAAG ATTCTGTGG AAGAAGAATG AAGTNNCNNN ATTATGAAGC 240
TACANCANNT TCCATCTTCT ATAACAACAC TCNGTTCCTG GTCGTNGTCA TTGTTGCTTC 300
CTTCTTCATA TTGAAGAAT TTCAACCCCA CAGTGAAC TA CANATTTGTC CATAAGTTGN 360

SEQ ID NO:5122

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06115

SEQUENCE DESCRIPTION:

GATCTGGTCA CACCTAAAGT CATTAAAATC ACTGAAATGT TTAGATACAC AGCCCAATAA 60
ATTCTCTTTA TAAAACACAA GCAGTAAA 88

SEQ ID NO:5123

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06116

SEQUENCE DESCRIPTION:

GATCAGGCCA CATAAGGAAC AGGGGAATTC CAGGGGTGGG ACACAGCTNG GGGAGTCCAG 60
ACCAGGGCAG GGAAAGGAGA CTCACAAGCC AACAGAGCT GCTTTGGGGA AAGTTCTTAT 120
CAGCTGGTGC TGCTTCCTGA GCCATATGCC CATTCTCAA GCTGTACCCN NNNNNNN 177

SEQ ID NO:5124

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06117

SEQUENCE DESCRIPTION:

GATCTTGGAC CTCCAGCCT CCAGAACTGT GAGAAATAAA TNTGTTTTGT TTCAGCTAAA 60

SEQ ID NO:5125

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06118

SEQUENCE DESCRIPTION:

GATCTGGCTG ACTCACACGC GACTGGAGAA TAAACAAACA GCAACATAAG GAAA 54

SEQ ID NO:5126

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06119

SEQUENCE DESCRIPTION:

GATCTCCCAT GGGTCACCCA GGTCCTATGC CTCCGCATGG TATGCGTGGA CCTCCTCCAC 60
TGATGCCCCC CCATGGATAC ACTGGCCCTC CACGACCCCC ACCCTATGGC TACCAGCGGG 120
GGCCTCTCCC TNCACCCAGA CCCACTCCCC GGCCACCAGT TCCCCNTNGA GGCCCACTTN 180
GAGGCCCTCT NCCTCAGTAA ATTCACATTT TNCTTCCTNC TGTTACATTT TNCNAATATN 240
TTTTCTATTC CTTGGACCAA TCAGAGATGC TGTAGCTTNC TTGGGGCAAA GGGTACTAAA 300
TCNCNTTNA GCACNN 316

SEQ ID NO:5127

LENGTH:222

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06122

SEQUENCE DESCRIPTION:

GATCCTGTTC CTGTCACCAT TGCTCTCGAT TCACTCAGCT GGCTGCTACT TCGCCTTCCC 60
TGCACCACAC TCTGCCAGGT CCTGCATGCT GTGAGCCATC AGGACTCTTG TCCTGGTGAG 120
ACCCCTCCTT CATTGTTTCC CCTCATACAT CTCCCTCTGC CAAGGAGTGT GCCCCTTTTC 180
CTTTCTACCC TAGAATAAAC ATCTGGGTTC TCCAGTCAGA AA 222

SEQ ID NO:5128

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06123

SEQUENCE DESCRIPTION:

GATCGACTGG AACAAAGTGA CCGCTGNGTA AAACACTGTC CTTGCCACTC ACTGTTGTAT 60
ACATTTCTTA TTTACGATTT TCATTGTGA TATATATATA TAAANATACN GTATANANAT 120
GCAACATANN 130

SEQ ID NO:5129

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06125

SEQUENCE DESCRIPTION:

GATCTTAGAG CTAAAAAGGA CTGTAAAAAT TACCCAGAAC AGCGTCCTCA GACTTAACCT 60
TCTGCAAGTT ATGTCTGTAT ATAAGANGAT TCTAATTGCT AACTGTTTAT ACTTTNCTGN 120
ATAAAATAGT TGTTTCTAAT TAAAANGTAG CCAAGCTAAA 160

SEQ ID NO:5130

LENGTH:349

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06126

SEQUENCE DESCRIPTION:

GATCTTCGTT CAGGGCATCA TCTGGGACAT CAACAGCTTT NACCAGTGGG GAGTGGAGCT 60
GGGAAAGCAG CTGGCTAAGA AAATAGAGCC TGAGCTTGAT GGCAGTGCTC AAGTNACCTC 120
TCACGACGCT TCTACCAATG GGCTCATCAA CTTTCATCAAG CAGCAGCGCG AGGCCAGAGT 180
CCAATAAACT CGTGCTCATC TGCAGCCTCC TCTGTNACTC CCCTTCTNT TCTCGTCCCT 240
NCTNCCCGGA GCCGGCACTG CATGTTCTTG GACAACACCC AGAGCACCT NTNGTTGTGG 300
GNTTTTGNNC NNCGAGCCCT TTAGCNGGGA ANGNTTGGT CTCNCCAN 349

SEQ ID NO:5131

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06127

SEQUENCE DESCRIPTION:

GATCCTCAAG GACCTGTAAT TTTTGGTAT TAAAAATTAA AATAACATTA TTTTATTTT 60
GANTTTTTTT CAAACAGTAA GAATAATATA TCAGCAGCAT GTATCTGCCA ATCATATGTA 120
ATAAATTNTT TATTTTGCCA AAACCAAA 148

SEQ ID NO:5132

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06128

SEQUENCE DESCRIPTION:

GATCTAATAC AAGANCTAGC AAAGCAAAAG TTTTGCAAG TGACAGCATA AAGACGGANC 60
ACAACAAATC CTCCTGNAG TGAATTAGGA AACTCCANGG N 101

SEQ ID NO:5133

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06129

SEQUENCE DESCRIPTION:

GATCCTCATT CTTTCCCCG TACAGTGGA AACATCTTN ATGTTTCCTT CATTATACGG 60

GATGGTTTTN CAAGAATAAG ACTTGACCAA GACCGACTGC CAGTAATAGA GCCTGTNAGT 120
 ATTAATGAAG AAAATNAGGG ATTTGAACAT AACACACAAG TTAGAAATCA AGGAATTATA 180
 GCTTTGAGTT ACCGTGACTG GGNNGNGATT GTGAAGACCT TTTGAGATTT CAGAGCCTGT 240
 GATTACTCCA AGTCAGAGGC AGCAGNNGNC AAGTNCTTTG NTTGCTAGCT GAAAGGACTT 300
 AAATGGNTAG TGAAGGTCCA AAACCGGGNA AGCGGCATNG TGTTGGN 347

SEQ ID NO:5134

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06130

SEQUENCE DESCRIPTION:

GATCACAATG CAGTTTCCAT GTTAGCACTG TGGATGGGT TTNAATCAAT AAAAAGTGG 60
 GGTTCCTTCA AA 72

SEQ ID NO:5135

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06131

SEQUENCE DESCRIPTION:

GATCTGTAAA ATAAAACTC AGCTGGGTCC AGATATCAGG TGTTCTAAAT CTAAGAATGT 60
 AAGAACAATC TTAATAGAAA TATGTNTTA ATAAGTGGCT AATATCTACA AATAGTACCT 120
 TTGCTAAATG ANTTCTTTT NATGACTATN TTGTTTTNA GNAATTGGGT GAAAANNCAA 180
 CTGANATGAG ATTATTTATN ATN 203

SEQ ID NO:5136

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06133

SEQUENCE DESCRIPTION:

GATCTTAGAT TTNATGAAGC ACAGTATGCA GGTAGGCCTA ATGGGGGAAG ATGGTAATAT 60
 AAAAGCAAGA AGTATTTTTT TTTTGAAAT GCCTGAANGC TGTNCTGNGG NTGCCCTCCC 120
 CTTNCCTTN 129

SEQ ID NO:5137

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06136

SEQUENCE DESCRIPTION:

GATCACCTGA GGTGGGGAGT TCGAGACCAG CCTGACCAAC ATGGAGAAAC CCCATTTCTA 60
 CTAATAATAC AAAATTAGTC AGGCATGGTG GCGCATGCNT GTAATCCCAG CTAATTGGGA 120
 GGCTGAGGCA GAAGAATCGC TTGAACTGG GAGGCGGAGG TTGCGGTGAG CCGAGANCAT 180

GCCATTGCAC TCCAGCCTGG GCAGCAAGAG TGAAGCTCCA TCTAAAAATA AATAANTAAA 240
TAAATAANTA ANCCCTCANA NNNAAAAATN 270

SEQ ID NO:5138

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06137

SEQUENCE DESCRIPTION:

GATCTGTAGG GGAGGGAGTT CAAATAAAGC TTTATTTTTT TCATTTTCAA A 51

SEQ ID NO:5139

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06138

SEQUENCE DESCRIPTION:

GATCTGGGCT CCCTGACTTT CTGAAGCTAG AAAAAGGTTG TGTCTCCCAA CCACCTTTCC 60
ATCCCCAGCC CCTCTCATCC CTGGAGCACT CTGCCGCTCA AGAGCTGGTT TGTTAATTAT 120
TGTTAGACTT TGCCATTGTN TTCTTTTGTA CCTGAAGCAT TTTGAAAATA AAGTTTACTT 180
AAGTTATAAA 190

SEQ ID NO:5140

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06139

SEQUENCE DESCRIPTION:

GATCGGGAGG ACCTGTATGC CTGACCGTTT CCCTGCCTCC TGCTTCAGCC TCCCAGGGCC 60
GAAGTCTCAG CCCCTCCAGA CAGGCCGCTG ACATTGAGCA GTTTGGCCTC TTTCCCTCTG 120
TCTGTGCTTG TGTTGTTGAC CTCCTGATGG CTTGTCATCN TGAATAAAAT ATANTAATAA 180
ATTTNGTATA AATAGGAAA 199

SEQ ID NO:5141

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06141

SEQUENCE DESCRIPTION:

GATCCAACCA CCTCAGCCTC CCAAAATGCT GGGATTATAG GCGTGAGCAC TTGCACCTGG 60
CAAAAAAATT TTTTTTAAAA AAGGAGAAAAG CAGTTTAAAC ACAAACAGTG AAACAGAGCT 120
GGCAGACGCC TGAAACTCCA TGGAACCATG CAGCTGTACC CTAGGGCTCC TCCCAGGAAA 180
AGAGAGATGT CAACGTGGCC CAAGGTGTCC TGAAGCACTG GGATTGGNTT ANCTCGAGCG 240
NTGGCCTTCC CAGCCCTNCG TGCTGCAGAG CCTCTGCTCG CTAGGCTNCC TTCATNCTNA 300
CTCTGTGTGC TN 312

SEQ ID NO:5142

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06142

SEQUENCE DESCRIPTION:

GATCTAAGAC AGCAAAGAAG TGTGCAAGGA GGGCCCTGTT AGCTCCCACT GTCCTGGTTT 60
CTCCTCCTGG AGTCTAATTT CCTTGGCCCT CTGAGCCTTT TGAGTCTGGG CCCTGGTCCA 120
ATGCTGCTGT TGTCTGAGGA ATGGTTTGGT GAGAACAGAT GTTAGAACTT GTTTGTTGAT 180
TCTTGTCTGG CTAATAAATC ANCACCAACT GNCTTCTCCN ACAGGGAAA 229

SEQ ID NO:5143

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06144

SEQUENCE DESCRIPTION:

GATCTAAGAT TATTCCCATG AGAAATGTTG AATTTATGAA GAATAGATTT TAAGGCTTTG 60
AAAATGGTTA ATTTCTCAAA AACATCAATG TCCAAACATC TACCTTTTTT CATAGGNGTA 120
GACACTAGCA AGCTGGNCAA ACTATCACAA AAGTATTTGT CACACATAAC CTNTGGTCTG 180
TTGCTGATTA NTACAGTACT TTTTCTTTGT GTGATTCTNA ACATTATAGC ACAAGTATTA 240
TCTCAGTGGG TTATCCGGAA TAACATCTGA AAGNGGGGTT CATCTNTGGT NGNGTTTGCT 300
CNNTAAACTA GNGTNTCTCC TGGTCCCATN GN 332

SEQ ID NO:5144

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06145

SEQUENCE DESCRIPTION:

GATCACATCA CGGAATATTC TTTGCCTTTC CACTTTCAG GAAATCTCTC GGACTGGGCT 60
AGCCTCCTTG TGTGTGATGA AAGATGGGCT ATATTTCAGA ACANAGTGCT GTGTTGTCAT 120
GATTTGCCTG GACTCCCAGG GCGTCTCTTA CCCAACTTGA TAACGATGCT GTTCATTAGC 180
AGCCTGTGTT AACTGATAAC CAAGAGCGGT AATGTGATAC TCATAAGCAA TTTTCTGTGT 240
GTAGGATAAA ATANNCCATC TTGTATNATT NCAAA 275

SEQ ID NO:5145

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06146

SEQUENCE DESCRIPTION:

GATCTCTTTT CAAGTTCACT CATTCTTTCT TCTGTAATGT TCAATCTCTC TTAAGAAAGT 60
CCAAATAAAT TTTTCATTTC AGAGAGTGGA AA 92

SEQ ID NO:5146

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06148

SEQUENCE DESCRIPTION:

```
GATCTGGGCA TTAAGTCAGT GGCTTTGCAT AGCTTTCACA AGTCTCCTAG ACACTCCCCA 60
CGGGAAACTC AAGGAGGTGG TGAATTTTAA ATCAGCAATA TTGCCTGTGC TTCTCTTCTT 120
TATTGCACTA GGAATNCTTT GCATTCCTTA CTTGCACTGT TACTCTTAAT NTTAAAGACC 180
CAACTTGCCA AAATNTTTGG CTGCGTACTC CACTGGTCTG TCTTTGGATA NTAGGNATTC 240
AATTTGGCAA AACAAAGTGT AATGTCAGAC TTTGCTGCAT NTTACACATG TGCTGATGNT 300
NACAATGGTG NCGAACATNA GTN 323
```

SEQ ID NO:5147

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06150

SEQUENCE DESCRIPTION:

```
GATCTTTTGA GTGGAGGTGG GTAGAGAGAG CAAGNAGGGC AGGACACTTA GCAGGCACTG 60
AGCAAGCAGG CCCCCACCTG CCCTTAGTGA TGTTTGGAGT CGTTTACCC TCTTCTATTG 120
AATTGCCTTG GGATTCCTT CTCCCTTTCC CTGCCCACCC TGTCCCCTAC AATTTGTGCT 180
TCTNAGTTGA GGAGCCTTCA CCTCTGTTGC TGAGGAAATG GTAGAATGCT GCCTATCACC 240
TNCAGCACA TCCAGCGGAA AAAGGGTGTG AAGNACCCAC CATGTTCTTG GAGCANTCAA 300
GGGTTNCTAA ATNNNNCGGC TGGGACCANT NANATAGTGA GTNNNNN 347
```

SEQ ID NO:5148

LENGTH:388

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06151

SEQUENCE DESCRIPTION:

```
GATCTGCCAT ACCACTGTGA CTGCATTGAA AGATGTCCCT TTCTCTCTCT GCCAGTCGGT 60
CGGTGTGGGA CAAAACACAG ATATACAGCA GATAGCGGCC AAAAATTCA CAGACACCTC 120
TCTCATGTAC CCAGAGGACA CTTGTAAATC TGGACCAAGT ACGAATACAC AGAGTGGTCT 180
TTTCAACACT CCTCCCCCTA CTCCACCGGA CCTCAACCAG GACTTCAGTG GATTTAGCT 240
TCTTAGTGGA TGTTGCACTC AAACGGGGCT GCAGAGATGG AGGCTTNAGG GNANANCTTT 300
ACAGNTTAAC CCNATTTTCA AGCANAAACA GTTCTCANGA AGTGTCATGA TTGNCCGGGG 360
TAGAAGGGAA AGAGATTGAA TTTGCTTN 388
```

SEQ ID NO:5149

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06152

SEQUENCE DESCRIPTION:

GATCTATAAT GGGATACATT GTCATCCTCT AGCAACTCCT ATATAGAAAAG TTTTAACTGA 60
ATATGTTACA TATANGAATT AAATTCTTCT CAAATAATTC TTAACCTCAG TNATGAGCCT 120
AAATTTACTC TGCTTGGCTC TCTACACATG GCATTTTCAGG GTATAAGATG TAGCATTNA 180
ATGTGTAAGA TATATGTACN NNNCATATGT GTTGCTATCN TCATCATTAA CATCCTTCTT 240
TNCTATTGCT TGGCTGTAAT TTTTGTAAG ATAAATTATA TTGTNTNNNT GTATGTGTGT 300
TTGTAGTN 308

SEQ ID NO:5150

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06153

SEQUENCE DESCRIPTION:

GATCTGTCCT GTGAGGCATT TAGGGGCTTT CAGGAATTTA GTAAAAGGTG GAGTATGCCT 60
TTCCAGTATC TTCCATCTTC CTTTGTATAC TTGTCCTCC TCCCATTTCC TCCCTTTGGC 120
CCGAGGTAGG AGGATGGAGG GAGGCTGCTA CTCTACCACT TCCTGTGTGC CTCTACTGTG 180
GCCTCAACCC TGGCAATTAT AGCTACTCCC ATCCCTTACC TGGGCATGTG TGAGCCCTTC 240
TCACTGGATT TTATACCTT GTGTCTGTGT ACATAAATAT ATATACATAT ATATATACAT 300
AAAANCTTTG TACAAA 316

SEQ ID NO:5151

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06154

SEQUENCE DESCRIPTION:

GATCAGGCAG GAGAAAACT TTAGATGGGA GTCTTGTCAT CAAAAATAAA TACAGTTGCA 60
TGGAAA 66

SEQ ID NO:5152

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06155

SEQUENCE DESCRIPTION:

GATCAGGACA AGAGCGANGC ACCAGGGGAG CTCTCTCCCA AAGGCCTTGT CGCCCCAGAC 60
CTAACTCGCT CCCCCTCAAC CTGCCTGAGG AAGAACTCT CAGGATTGCA CGGATATTTT 120
CTTCTCAGTA CTCCCAGAAA GACTGACGCA GCCTGAGGGG CTGGGGTTGA AGGAGACACC 180
TGCCANCNN NCGTCAGNTT TGTCCAGCTT GCAGGAGGCA CCAGGTCTGG CTCCTTCAGG 240
GCTGTACAG TCCTGAAACC ACCACTTGCC TAGGTCACGG ATGCCTNAAG AGACCCGGTN 300
AGGCTAGATN N 311

SEQ ID NO:5153

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06156

SEQUENCE DESCRIPTION:

GATCTAGGGC TGGCCCCTAG TGAGTGGGCT CGAGGGAGGG TTNCCTGGGA ACCCCAGGAA 60
TTGACCCTGA GTTTTAAATT CGAAAATAAA GTGGGGCTGG GACACACGAA A 111

SEQ ID NO:5154

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06157

SEQUENCE DESCRIPTION:

GATCTCCTNN TCCAGTGCTG CACACTCCTG TTTTTGGAAC TTTAATAGCG TTGCAACGAA 60
ATCCTATATC CAGTTTCCTG TAATTTANTT GAAGAAAAAT ACATCCAAAT AAAGACTTTA 120
TTATTAACAG ACCAGATAGC ATCAGAAATC ATGTGACTGT TNTGCTTATC AGANTATGTC 180
TNAACTNTTT AGGGCAAAGT TAACACTGAA AGTTCTAGCT TAAGTGTTGA NCCTNTNGTG 240
GGAAAAANAA TTCCACTTGT GAAACNTCAG GCTN 274

SEQ ID NO:5155

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06158

SEQUENCE DESCRIPTION:

GATCACTCTG GTGCGGGTGT TTGGTTTTGT TTTAAATAG CTTTGCACTG AAAGCTTTCA 60
TGACCATACA AATNATCTTT TTTCTTCCTA TTTCTTGTA GAGGTTTTTT TCCTCCTTGT 120
CTTAAGGTCA TAAAAATATT GTTATGTGGG ACAA 155

SEQ ID NO:5156

LENGTH:369

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06159

SEQUENCE DESCRIPTION:

GATCTGTGGC TTTGCTCCAC CATCCCTAAC CAACCTCTCA TCACAGCTTT NTGTGTGGGC 60
TGAGTGCTGG CCTTAACCCT AGGCGTGGA GAGAAATGT GAGGTTGTTT AGATACTCAT 120
CAGGACCTCA CAGGAGCTGA GACTTATCAG CCAGAAATNG TTCTTCGGAC AGTCGTACAC 180
ATCTTACAGA AAACCTCCT TNGTAGAGTT GGNTTGTGGT ATGTGTTTGA TGCTATAAAG 240
CTCATTTTTA ATGGTGTA CCGTNTCTA GGGNCGATTT CGTTTTGGAA GNGGTAANG 300
NTGCNTAAC CAGGTAACN ATCCTTGGGN TTTAAGGTGN AAAAAATNTT CTNGNCAAAG 360
GGAANCCNN 369

SEQ ID NO:5157

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06160

SEQUENCE DESCRIPTION:

```
GATCAAAATC AAAAGAACCG TG TAGATATA CTTNATTGTA TAAGTAGAAA ATTACTTAAT 60
TNCATACTAG AAATGGATGG ATGCTGCAAG TTGAAATGGA CTGTCCATTG ACGGTCCTAA 120
TGTGGTAGCA GAAAAANATG GTGTCTTAAG TNCTTAGNGT TTGATGTCAT TAACAGTTTC 180
GTAAAACTCT ACAGTGTAGN AAGTTTTTTC AATACTAAAC TGTGCGTTGT NCATAGTTCT 240
AATGCATTGT NTTNGCCNCC CGGTACTTTC TNTNAANGN 279
```

SEQ ID NO:5158

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06161

SEQUENCE DESCRIPTION:

```
GATCTCAAGT GAGATAGCAG AGCAAGATGC CAAAAGACCA TAAATAGAGT AAGGTTTCTA 60
TAGATGTNAG ACAGATTTGA GAGAGCATTT ACTCTGTCTC CCTGTGGATG AACTGCTGC 120
TGAAATGGTT CCAATTTTNA GGAATCTGCT TACCCNCTTC ATTATTTGAC AGCTTTCCTT 180
GGTGACCCAA ACCTTGTAGC CTAAGCCATT TGTCTTTTTC TCAGTGGAGG GAGTGTATGG 240
ACCTGGCCCC ATGGCTTTGC ATGTTAGAGA CCTGGCNGAC TAAAGTCNCN GGGTGTGTTGT 300
TTGCTCACAT TTGCTGAGTG ACAGNTATGG TGNCCNN 337
```

SEQ ID NO:5159

LENGTH:378

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06163

SEQUENCE DESCRIPTION:

```
GATCTACAAC CCCTTGAGAG AGTGCTGTNA CAATNACGCC ATCGTGTCCC TNAGCGAGAC 60
CCGCCAATGT GGTCCCCCCT GCACCTTCTG GCCCTGCTTT NAGCTCTGCT GTCTTNATTC 120
CTTTNGCCTC ACAAACGATT TTATTGTGAA GCTGAAGGTT CAGGGTGTGA ATTCCCAGTG 180
CCACTCATCT CCCATCTCCA GTAAATGTGA AAGCAGAAGA CGTTTTCCCT GAGAAGACAT 240
AGAAAGAAAA TCAACTTTTC ACTAAGGCAT CTNAGAAACA TAGGCTAAGG TAATATGTGT 300
ACCAGTAGAG AAGCCTGAGG AATTACAAA ATGNTGCAGC TCCAAGCCAT TTGTATGGCC 360
CATGTGGGAG ACTGNTGN 378
```

SEQ ID NO:5160

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06164

SEQUENCE DESCRIPTION:

```
GATCAGCCCC ACCCTGGCCT AGACCAGCAG ACAGAGCCAG GAGAGGCTCA GCTGCATTCC 60
```

GCAGCCCCCA CCCCCAAGGT TCTCCAACAT CACAGCCCAG CCCACCCACT GGGTAATAAA 120
AGTGGTTTGT GGAAA 135

SEQ ID NO:5161

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06165

SEQUENCE DESCRIPTION:

GATCTCGTAA GATTAAATGT AGCATTCTAT ACTCCCTACA TGCACAGTAN GATTGTTTA 60
ATGAATGGAA GGAAAGACTA AATACAATGT CAAATGTNAC TATTAATTGG ACAAGAAAAT 120
CCAAGTAGCA AATGACCATT ATGTGTAAGA CTTACTCTAA AAAGACCNTT TTAAATAGCT 180
CATATATTAA TNTNGTTTAA AACCTGCTAT TTTCCAAAAC TGCAAAACTA GGGCTATAAA 240
AATCTAAGTT AAAAAATCAG CTNATCCTCA TTGGTATAGT GGTNTGGNNA AAAAAATCCA 300
GTTTAAACC NGNNTNNATT GANAGGNTGT CTCCATGCCT NCCATTGGGN 350

SEQ ID NO:5162

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06166

SEQUENCE DESCRIPTION:

GATCACTTTT ATGTAAAAAT TATAATTTAA TTAATAAAAA ATTTCTTAAG AAGTAA 57

SEQ ID NO:5163

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06167

SEQUENCE DESCRIPTION:

GATCAGGCCT TGGCCTCTNA GCCCTGCCTG CTCTGGGCCA TGCAGAGGAA GGACAGAGNG 60
TGGGCGCAGG GCACCAACTC AGGGACATCC CCTCTCCTGG GCGACGTCAG TGGACCTTCC 120
TGCACCCCCA GCCTGGAATG TAAATNAGCT GTGTGGTGCC CGCGTNGCTG GAAGGAAATA 180
GACCCTTTTN TAGCTCCCTG AAA 203

SEQ ID NO:5164

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06168

SEQUENCE DESCRIPTION:

GATCCTCTGT GATACCAAAA TCCATGGATG CTAAAGTCCC TTTTAAAAA TGGCATAGTA 60
TTTGCATATA ACCCAAACAC ACCCTCCTGT GTATTTTAAA TCATCTGTAG ATTACTTATA 120
ATACATAATG TAATGTAAAT GCTATAAAN TAGTTATTAG ACTGTATTTA GGAATAATG 180
ACAAGANGAA AAAGTCTGTA CATGTTTCAGT ACAGAGGCAA CCTTTGTAGG TCTAAATANN 240

TTTTTAATAC AGNANTNNGG ATGTNAGNNN NGGN

274

SEQ ID NO:5165

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06169

SEQUENCE DESCRIPTION:

GATCTCTTTT TATTTAAATG TGAATTTCAA CTTTGTGACAA TCAAAGAAAA GACTTTTGTT 60
GAAATAGCTT TACTGTTTCT CAAGTGTTTT GGAGAAAAAA ATCAACCCTG CAATCACTTT 120
TTGGAATTGT CTTGATTTTT CGGCAGTTCA AGCTATATCG AATATAGTTC TGTGTAGAGA 180
ATGTCACTGT AGTTTGTAGT GTATACATGT GTGGGTGCTG ATAATNGTGT ATGTCCTTTG 240
GGGGTGGAAA NGGATAACAA TTCAAGCTGA GAAANGTATT CTCAAAGATG CATTTTATA 300
ANTNTNATTA ANCAATNTTG TNANAGNNNG ANNGTGGGN NTN 343

SEQ ID NO:5166

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06170

SEQUENCE DESCRIPTION:

GATCATACGA GGCATGTAAT ACCAAGAATT GTTACTTTAC AATGTTCCCT TAAGCAAAAT 60
TGAATTCCT TTGAACTTTT AGTNATGCAC AGACTNATAA TAAACCCTCT AAANCCTGCC 120
CAAA 124

SEQ ID NO:5167

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06171

SEQUENCE DESCRIPTION:

GATCTTGGAC CCAGTCTGGC CCGTGCCCAG CATGGGGCTG CTTCTCCTCC ACAGCTCCTT 60
CCCAGAGGGC TGGGGCCTCA GCCTCCCTGC CACGTCCACT CTGGGCTGGC CTGGAACATA 120
CTACTATGTT GACAGTAACA ATAAAGCTCC TCAGGGACCA CCGTACAGGC CCGCAGCCCC 180
ACTGNCTGCT GTTGGAAGAA AGCTGTGGAA AGAAAGCAGG GGGNCCCTGC CCCAGGCCAA 240
GGCCCTGCCC TTGCCACACA CGGTACACAN ATGCAGCCTC TCTNTCTCTN TGTGTCCACT 300
TGTGAAAATA ANCTGCAGGN CTGGNTNGGA CAACAAAGGN AGNNGNACAG TGTCTNGGNN 360
GGCANN 367

SEQ ID NO:5168

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06172

SEQUENCE DESCRIPTION:

01566

GATCAGTTCA GTATATTGCA CTAATTATTT TAGGTATTTT CATTATATGA AAGCTACCAT 60
GTGTCAGAGA TGATTTAATC TATTTAAGTG TTGGACTGCT AGGAGAACTT GTACATTTAT 120
GATAATGCAG AATTAGGAAA ACGGTTCCACC AGTGTTTAGT TTTATATTGA GGTGCTCAGG 180
TTGGTATAAA GTGGTATAAA AAGCAAA 207

SEQ ID NO:5169

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06173

SEQUENCE DESCRIPTION:

GATCATGCCC TTTGTAGTAN CACAAATGGN GCTGGAGACC ATTATATTAA GCAAACCTAAC 60
ACAGTNCCAG ANAACCAAAT ACAGTATGTT CTCACCTATA AATGGGAACT AAAGNN 116

SEQ ID NO:5170

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06174

SEQUENCE DESCRIPTION:

GATCTGCTAG GGATTGTCAA AATAATCTCC TTGAGGCATC TTTATTTTAA AAATGAGATT 60
AAAGTATGTG ATTTGCTTGT TATGTGGCTA AA 92

SEQ ID NO:5171

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06175

SEQUENCE DESCRIPTION:

GATCANCAGA AAAGGCAAAT TTCACCTGNC TAAACACTTT CAATTTTCAG TTNTAATTTT 60
ATNTTCTATA TACCCAGTCA TAAAGTATAA GCATCAGTTG TCATTAAAAG TTTTCAGAAA 120

SEQ ID NO:5172

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06176

SEQUENCE DESCRIPTION:

GATCTGTAAT GAAAAGAATC TGNTACTGCA AGTAAAACCT ACTCCCCAAA AATGTGTGGC 60
TTTGGGCTCTG CATTAAACGC TGTAGTCCNN GTTCATGCCA AA 102

SEQ ID NO:5173

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06177

SEQUENCE DESCRIPTION:

GATCACTTNT NGTCTGATTC CAGCCTGCTT GCAACCCTGG GNTCCTCTTG TTCCCTGCTG 60
NCCTGCCCTT TGGGAAGGGG CAGTGATGGC TTTGAGGGGA AGGAGGAGAC CCTCTTTCTC 120
CCATGCTGCA CTTACTCCTT TTGCTAATAA AAGNGTNTNT AGATTGTCAA A 171

SEQ ID NO:5174

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06179

SEQUENCE DESCRIPTION:

GATCTAAACT GTATTGNCCA ATTTAAATAA AAAATNNAAT ATAGATTCAG AAAGGTTTCAT 60
ATTTTCTAA TGACTTCATT CTATATTATN TTGTTAGGTT GCATAAAGAA GCAAGGAATT 120
GTACTTGAT TAAAAGATGA AGAAAGCTAT TAGGTATATT TGTACATGNC TGCANNTGTG 180
TCTATNNN 188

SEQ ID NO:5175

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06180

SEQUENCE DESCRIPTION:

GATCTTGAGA GGTGGAGGTT GCAGTGAGCC AAGATTGTGC CACTGNCTTC CAGCCTGGGA 60
GACAGCAAA 69

SEQ ID NO:5176

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06181

SEQUENCE DESCRIPTION:

GATCTGTAA TATGTAACAT ATTAATGGGT AACTTGCTGT GTAAAATTAT AAGCCATATT 60
TTAAAAGGTT TAAAAAATAC TTATTGTGCT CCATTTGTGA TATAATTNCT AACATTCTG 120
CTCTGTGANN NNNN 134

SEQ ID NO:5177

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06182

SEQUENCE DESCRIPTION:

GATCTTNGAG ATTGTTCCAC ATCAGTACAT AAAGTACATA AAGATTGTCA CCCCACAAA 59

SEQ ID NO:5178

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06183

SEQUENCE DESCRIPTION:

GATCTGTCTA CTTNNCTTAT CCTGATTCAA ATGGAATGCC AGTATGGAAC TCCTAGGATT 60
TGTCACGAAT GGGAAGCCAA GTGCCATCTT CAAAATTTCA GGTCTTAAAC NTGGAGAAGG 120
AAGCCAACAT CCTTTTGGAG CCATGAATNT TGTCCGAACT CCANNNTGTT GCTCAGANTG 180
GANTTTCAGT GGN 193

SEQ ID NO:5179

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06184

SEQUENCE DESCRIPTION:

GATCATTATT TGGNAATATG TCCTATGGAA AGAATAAAAG CATGTNCTTC ACAGCTAGCA 60
TGTTACAGA TTTGAAAGAA GTTTCATTAA AAGCACCATT GCTTCAAA 109

SEQ ID NO:5180

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06185

SEQUENCE DESCRIPTION:

GATCTTAATT TAAATAGGTG CTTTAATTTT ACAGCTTTCA AAAGTAGTTA CTGTAAATTT 60
TACTCCTGTT AATGCTGGAT TGGTTTAAAG GATTATAAG GGCTGTGTTT NCTCTNTACA 120
AGGCAAGATG CCATACAGNG TTCANTAATA GAAGGTCTNG ATACAACCGA CATTTTAAAT 180
ATTCTNTATA CATGNGGACT GCGTCTTTT CACTGACCCT ATGANTTCAC TGTGGAGTAG 240
GGTGAAGTGG NCTGCANATT AGTTTATTTG TTGCCATAAT CACATTNNNG AAAAGAN 297

SEQ ID NO:5181

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06186

SEQUENCE DESCRIPTION:

GATCTNATTG CTTATAAACT TTGGTGACGG TAGTGTGTAA GGCCGTATTT NNAGCATCTN 60
ACAGGTGTTT ACAAAAAAGT GGTGTGCGCA CTGGGAAGTG GAGTGATGGC CTCGTCTCCA 120
GTGCTCCTCT GGGCTCTTGA GTTGCTGCTT GANTTGCCGT GTAGACATTT NCTTGGAGAG 180
TCCACTTGTN ATTTGACGGA GGTAGGTTTC AACCCAGAGT TAATGTCAAG CATGCTAATT 240
TANCTAGTCA CTCACAGATG ACTTTCCTTT AATAAAAGTC CCTTTTCCCT AAAANAAAAA 300
A 301

SEQ ID NO:5182

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06187

SEQUENCE DESCRIPTION:

GATCTTTGGG CAAGTCACTT AACCTCTCTT TNCCTCAATT TCCTCATCTT GAAATGAGGA 60
TAATAATACC TGCTGTACCT ACCTCACAGG GCTGTTGTGA GGATTAAATG AGNTGGCATG 120
TGAAAGCACT TTGAAAATTG TAAAGCGCTA TGTAATGTGA AGGTATTATA GAANCATCTT 180
TAACATATAG TTTCATACCA TTCATTTTTT ACCAAAGAAA GGGAAAGTNT GCTNGTANGC 240
TGGTTGAAAA AGTTANNCTT GGTATAANNT TGNGTTTGGT TGANGNANAA GGN 293

SEQ ID NO:5183

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06188

SEQUENCE DESCRIPTION:

GATCACAAAA GTATATAAAA AGTCTACTAG AGCAACATTT TCCCATATTT TTNGGTTCTC 60
AAAGCAACTT ATGTATGNTT TAGAGANGNC AAAAGAGGAA GCCTAGGGGG AAAAGAAAGA 120
NAATTAGAAT TTGCAATNC TAGAAAANN 149

SEQ ID NO:5184

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06189

SEQUENCE DESCRIPTION:

GATCGAAAAG AAATTTNTTT ATACTTGATG CCTTAAGATN CCCAAAGCTG CCCAAAGCTC 60
TGAAAGACTT TAAGATAGGC AGTAATGCTT ACTACAATAC TACTGANTTT TTNTAGAGTT 120
AACATTTGAT AATAAACTT GCCTGTTTAA TCTCAA 157

SEQ ID NO:5185

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06190

SEQUENCE DESCRIPTION:

GATCTTGCCT GGAAGGTGTT TTAAGTTTNN TAATAACAA GATGATGTCT GAAAATNTGA 60
AA 62

SEQ ID NO:5186

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06191

SEQUENCE DESCRIPTION:

GATCTAGAGC AGCATGGAGC TGTTGGTAGA ATATTAGTTT TTAACCATAC ATTGTCCCAA 60
 AAGTGTCTNT GCATTGTGCA AAANGTAAAC TTAGGAACAT TTNGGTATTA AAAGGATTAT 120
 TTTAATTGNN AAAAGCCNGA NGCGN 145

SEQ ID NO:5187

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06192

SEQUENCE DESCRIPTION:

GATCAACAGC TCCGCCTACC GCAAAGCATT TGANAGCAGA CTAGCCANCA GTNGTGCTCT 60
 GAGAGTGAAC GNGCACCTCC AGGTNGAGGG CCACAGCAAC GTN 103

SEQ ID NO:5188

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06195

SEQUENCE DESCRIPTION:

GATCTGATAG AGGGGGAGGC AGAAGCAGAT ACTAGAAACA AACAAACTT TGGACCAAAA 60
 TCCCAGTTCA AAGAAACAAA AAAAAGAGTG GAAACTATTC TATCATAACT ACCCAAGGAC 120
 TACTAAAAGG ANAAATTGTG TTACCTTTTT TAAATTCCT GTTAAGTCCC TTCCGTAATT 180
 TTNATGTTCT TGTGAGGANA AAAGTAAANC ATGTTTANTT TTAANNAAGG NGANAGNGGG 240
 NGTNTAGN 248

SEQ ID NO:5189

LENGTH:354

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06196

SEQUENCE DESCRIPTION:

GATCTCTTAT ACAGACGCAC CAAAGCCCTC ATTGACTATG AGAACTCAAA CAAAGCTCTG 60
 GATAAGGCCC GGTAAAGAG CAAAGACGTC AAGTTGGCTG AGGCACACCA GCAGGAGTGC 120
 TGCCAGAAAT TTGAACAACT TTCCGAATCT GCAAAAGAAG AACTGATAAA TTTCAAACGG 180
 AAGAGAGTGG CAGCATTTAG AAAGAATCTA ATTGAAATGT CTGAACTGGA AATAAACAT 240
 GCCAGGNACA ATGTCTCCCT TTTGCAGNGC TGGTNTTGAC TTGTTCAAGA GTAAGTGGTT 300
 ATGCCTTCAC TCNGTAGGAA NNGGAGTTGA ATTGTTGTAA GGAAGCCNAN GTGN 354

SEQ ID NO:5190

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06197

SEQUENCE DESCRIPTION:

GATCTCTATT TTAAACTAG CTTTTTAAGC AGCTGTATGA AATAAATNCT GAGTGAGCCC 60
CAGCCCGCCC CTGCAA 77

SEQ ID NO:5191

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06198

SEQUENCE DESCRIPTION:

GATCTAGCTT CANAGGAAGT CTACACCCCA TTCCCTTCTG CTTACAATGT ACCCATGATA 60
TGTGTTTAGC ACAGTAATAC TGTAACAGGA CATCACATGG AAAAATCAAA GCAGCTGGCT 120
CACTGTATTT AACTGAAAAG AATGCCTACA GATTGGATAT TTNGTAGGGG NAATTAAGGC 180
ACTTTNNTAA CAAACTTCAT TNTGTGAAAC TNGGTTGAAT ATTAACATAC AATTNNGNCG 240
GGNNTATTAA TGCCATN 257

SEQ ID NO:5192

LENGTH:185

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06199

SEQUENCE DESCRIPTION:

GATCCCAGGC TGCCCTGGAC TTAGACCAGT GTCTGAGGTG GTAACAGCGG CCGCACAGGG 60
TTGGCCTAGA CCTNGGATTT GTGGGGAAAG CTGCTGGTGT GACCANCTGA GCACCCAGCC 120
AGGAGACCTG CAGCCCTNCG NCTTCCAGAA GCAGGTCCCA AATAAAGNCA GTGCCNACCT 180
NCAAA 185

SEQ ID NO:5193

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06200

SEQUENCE DESCRIPTION:

GATCTGTATA TAACCTTAAT TTAAAGGACC ATAATCAACT TTGTAATATT CTNATATAAA 60

SEQ ID NO:5194

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06201

SEQUENCE DESCRIPTION:

GATCACCTC TACGGGAGAA CCAAGGAGCT GACTTCGGAA CTAAAGGAGA ACTTCATCCG 60
CTTCTCCAAA TCTNTGGGCC TCCCTGAAAA CCACATCGTC TTCCCTGTCC CAATCGACCA 120
GTGTATCGAC GGCTGAGTGC ACAGGTGCCG CCAGCTGCCG NACCAGCCCG AACACCATTG 180
AGGGAGCTGG GAGACCCTCC CCACAGTGCC ACCCATGCAG CTGCTCCCCA GGNCACCCNG 240
NTGATGGAGC CCCACCTTGT NTGCTAAATA AACATNTGCC CTCAA 286

SEQ ID NO:5195
LENGTH:138
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06202
SEQUENCE DESCRIPTION:
GATCTCTGT TCTCTCCTGA GTGTCTTNCT ACTNTGCTGA GNGTCTTTCT GCTGTCCTTA 60
TCCTGTTCTC TTATCCTNAT CCCCTCCAGT CTCTGCCTAA TTTTNAGTGT TTAATAACAA 120
CCGNATGTCT AGTAAATN 138

SEQ ID NO:5196
LENGTH:96
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06203
SEQUENCE DESCRIPTION:
GATCAAGAAC TTGGAACCGC AGAAAACGAA ATCCCATAGT AGCACAAAGC TTGGCTGTTC 60
AGTGAATAAC ATTTAAATAA TCGTAAANTA CAGAAA 96

SEQ ID NO:5197
LENGTH:222
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06204
SEQUENCE DESCRIPTION:
GATCTTGCAG CTTTATTTGA GTATTTGTTC TTTTGTGTAG TTTCCATCTT TTAAAATATT 60
TAAAATATTT TCAAGATAAA GTATTATCTT CTCTGCAAAA ATTCCTGGAG TAATTTNCTC 120
TCATAATATT TGAGGTCAGT GGTTCCTCAGT TGTATTAGTG GGGTAACTAC ATCAAAGTAA 180
ATAANGTCTT ATTTTTNANA TGCAAATTTT AGACCATAGA AA 222

SEQ ID NO:5198
LENGTH:53
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06205
SEQUENCE DESCRIPTION:
GATCAAGTGA ACCATCCCTA GTCTTCCCTC AATAAATAAC TTTTAACTCC AAA 53

SEQ ID NO:5199
LENGTH:239
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06206
SEQUENCE DESCRIPTION:

GATCANAGTG AACCTCAGT TTGTACAAAA GAGTATGGGC TCACAAGANG ATGATTCAGG 60
 AAACAAACCA TCCAGTTATT CTTGAAACTA ACATCCATCC TGAGCTAAAC NAGAGAAACT 120
 ACCATCTTGG CCAGTGNCAN GTGTTCGGAG GGCAGCAGAG NGGACCAAGC CTGTGTCACC 180
 TGGNGACTAA GAANTTAAGT TTTGTNTTGA CATATTCAGT CCTGTGTGCT TNCAGNAAN 239

SEQ ID NO:5200

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06207

SEQUENCE DESCRIPTION:

GATCGAATAC GTGGATGNGA CGGGCCGGAA ACTCACACCC AAGGAGGCTT TCCGGCAGCT 60
 GTCGCACCGN TTCCATGGCA AGGGCTCAGG CAAGATGAAG ACAGAGCGGC NGATGAAGAN 120
 GCTGGACGAG GAGGCGCTCC TNAAGAAGAT GAGCTCCAGC GACACGCCCC TNGGCACCGT 180
 GGCCCTGCTC CAGGNGAAGC AGAANGCTCA GANNGACCCC NTACATCGTG CTN 233

SEQ ID NO:5201

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06208

SEQUENCE DESCRIPTION:

GATCAAAAAG GGGTTGATTA CAAGGGCAGG AAGGAATTGT TAGTGTGATT CTACAGTTCT 60
 GCATCTTGNT TATGGTATGA CTGTGCGTTT GTCAAACCTT AACAGGATGA ATTTTGCTGA 120
 ATGTAAAATC ATACTTCAAT AAACATGACT TAAAAANCTT AAA 163

SEQ ID NO:5202

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06209

SEQUENCE DESCRIPTION:

GATCAGTTTA TGTGTAATAT TCTAGTGCTT TAATGACTCT TTTTTCTTT GGAGGGAGGG 60
 TAACATTATT TGGACAGATG CAGAAGGAAC TGTTAGTGAG TCAAGACAAA CACATCTGAA 120
 ATAAAGGAAC TGTGTATTAA CATGTTAACA ATTCATAACT GCACTTTTTA TGACATTTTG 180
 AAAATCTATT TATAGGTACA GANCAATGGG TTTTGTTAAN CTGTATCACA TTTATNCTTG 240
 CAGAAATTTA TTNCATTGTT ATTAGTAGGA ATTTTNTTGG TTCAATAAAA TTGGCAAAAN 300
 CTGGGAAAAAN NAAANNTTN 319

SEQ ID NO:5203

LENGTH:82

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06210

SEQUENCE DESCRIPTION:

GATCTGTCTA GTTCCCATTC TCTGTTCAAC CTCAGTGNTT CAAAAGTTCC TAATAAATAA 60
ACTCATTTGA GTTGAACCTA AA 82

SEQ ID NO:5204

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06211

SEQUENCE DESCRIPTION:

GATCAAGAAA GAAGCTATCT GGGANCANTG TAGCANTTAC GTCAGACCAG GACACTTCCT 60
GTTTACAGGA GACTATAAAA CCTTTGTCCT ATCATCACTT GATGTGGACG NCATTTTAGG 120
CCTCAGCCCG CCTGCACCCA GNNNN 145

SEQ ID NO:5205

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06213

SEQUENCE DESCRIPTION:

GATCAGAAGC ACCTCTTCTT TTATAGAAGT TGATGGATGG TTCATTCCAT TCTGCTACCA 60
AGAAGTGCAT GCTGCTGCAG CGACACCTCA TTGCAACCTA TTATGAGAGA GTAAAACACA 120
CACTCAGTGA CATTTCAGCC TGCTCTCAAG NCCCAATTTT TATTCCATCA TTAAAATAAT 180
CCAGTAAACT TNCAAATTTG GAAACCANAA ACTAAGGCAT ACCTGGCTTA GATTCTTTCA 240
GAATTTTCTG NTCTTTTGTG CGTAAATTNA AAAATAATTT GTGGCAGGNN TAAA 295

SEQ ID NO:5206

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06215

SEQUENCE DESCRIPTION:

GATCTTTAAA ATNAAGTGTA CGCTTATAAT ACAAGTAATG CTTGTGTATT TCTCACTTTA 60
GGAAATAAAA TATTTGCCAA TTTGAAA 87

SEQ ID NO:5207

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06216

SEQUENCE DESCRIPTION:

GATCCTCCCA TCTCAGCCTC TCGAGTAGCT NGGACCACAG TTGTGTGCCA CCACACTTGG 60
GCTAACTTTT TAATTTNTTT GCGGAGACGG TATTGCTATG TTGCCAAGGN TGNTTACATG 120
CCAGTACAAT TTATAATANA CACTCATTTT NCCTNCCGTC TGAAA 165

SEQ ID NO:5208

LENGTH:116
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06217
SEQUENCE DESCRIPTION:
GATCTTCTTC AGAAGCTTCA AGTCTCANCT GCATTAAAGC TCTCCATTGA ACCCGNTCAC 60
AAAAGTACAA GCTTAAAGGG GCTAAAATCC ATTAATACAT NCCATNTTAT ANCCCN 116

SEQ ID NO:5209
LENGTH:117
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06218
SEQUENCE DESCRIPTION:
GATCCCGTGN ACCGAGTACA CGACCCAGGT ATGTACCAAG TAGGCACCCT TGGGCGCACC 60
CACTGGGGCC AAGGGTCGGG GGAGTGTGG GAGCCTCCTN CCCACCNNAC CTNCCTN 117

SEQ ID NO:5210
LENGTH:181
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06219
SEQUENCE DESCRIPTION:
GATCAGCCAC TTGCTGACCC TGGTTCTTAA GGACACATGA CATTAGTCCA ATCTTTCAAA 60
ATCTTGCTCT AGGGCTTGTG AGGAATCAGA ACTAACCAG GACTCAGTCC TGCTTCTTTT 120
GCCTCGAGTG ATTTTCCTCT GTNTTTCCT ACTAAGCAA ATGAAACTC TCTCCATTAA 180
A 181

SEQ ID NO:5211
LENGTH:344
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06220
SEQUENCE DESCRIPTION:
GATCANAACC AGTTTGTAGA TTTCTTTGTT CCTTCTCCAT TCCCACTGCT TCACTTGCCT 60
AGTCTTGAAG NAAAAAACA AAAAACAAAA AAAACCTTGT TCCTTTATAG GTTCCTGGTA 120
GAATCAGTAG AGATGATTTC AGCTCATTGA CATTTTTTTA AGCTATATCC CCTTGTGATT 180
CCATTGAGAA AGCTGACAAC TGGGATAGGG AGGGGATTCTG ATAATAGATG GGGTCAAATT 240
CTGTGTGAAT GTGAACCTGC CTAGTAAGCA CTTTGGTCTG TGGTTCCTN CTGCGGTTAG 300
NGGAAATCTA TCTCCCTAT CTTNGGTCC TTGAACTACA GCNN 344

SEQ ID NO:5212
LENGTH:139
TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS06221

SEQUENCE DESCRIPTION:

GATCACATAA CTAGGAAGTG GCAGAACTGA TTCTCCAGCC CTGGTAGCAT TTGCTCAGAG 60
CCTACGCTTG GTCCAGAACA TCAAACCTCCA AACCCCTGGGG ACAAACGACA TGAAATAAAT 120
GTATTTTAAA ACATCTAAA 139

SEQ ID NO:5213

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06222

SEQUENCE DESCRIPTION:

GATCGTAAAC CATTATCCTT TAAAGGTNTA TTTGAAGATG CTGTTAAAGT ACAGAATTTT 60
GTGTACAGGT AGATTTTNCC GTCCCTCATT AATAGTGCCT TCTTAATTAA TACAGACTGG 120
TGTTAGCTAT AACAAAACCTC CAGTANNGGG GGGTGNATCC CAAGTNCTTT GTGGCNANN 179

SEQ ID NO:5214

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06224

SEQUENCE DESCRIPTION:

GATCAAAATG TTCTGGAATT AGATGTGATG TTTGCACAAC TCTGTGAATG TACTAAGAAC 60
CACTGAATTG TATATTTTAA AAGCATGGTA TGTGAATAAT ACCTCAATAA AGCTGTTATA 120
AAAAATAAA 129

SEQ ID NO:5215

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06225

SEQUENCE DESCRIPTION:

GATCTTCAAG CATAGNNTTG CATATTTTAA CATCTGAAAT CAGAAAGTGT CTTNNCTGGG 60
AGTNTGGTTT TAGAAACATG AAATAGTACT GTATGTAAA ATCGATGGCA GTGTTGCCTC 120
GATGATATNT N 131

SEQ ID NO:5216

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06226

SEQUENCE DESCRIPTION:

GATCTTTGAG CGGGACCTGA AGAAGAAGGG GCCCGAGCCG GTGCCACTGG AGTTTATCCC 60
AGCCAGGGC CTGCTGGGAC GGCCGGGTGA ACTCTGTGCC CAGCACTTCA CGCTCAGCTG 120
ACCTGGCCC ACCTGTNAAT AAATCTCAGC TGACCCAGC CCACCTGTNA ATAAATNTTT 180

TTGCAGGAAA

190

SEQ ID NO:5217

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06227

SEQUENCE DESCRIPTION:

GATCCCTGGT CTTCACTG TAGCAGCCAA AAGGAACAAG CTGAAANTGG ATACCTAATG 60
TAAGTGGAGT CTTCTAAGT TTTCTGGAA GAAGTCGGGT CCCAGGCTCN AGTTGCTGGT 120
TCTNACATGC CACCATCCAC AGTCCTTCAG CAGATTNATT CAGTGGCTAA TGCTGATATC 180
ATAAATGCGG CAAAGAAGTT TTTTCTGGC CAGANGTCAN TGGCAGCAAG TGGAAATTTG 240
GGNCATNCAC CTTTTTGTG ATGAGTTGTA ATACTGNNGC GCNCATTACC AGGTGAGAGC 300
TGGANCGTNT TTTCAGNCCN TGN 323

SEQ ID NO:5218

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06228

SEQUENCE DESCRIPTION:

GATCAAAGTT CAAATTAATT TTAACCTAGC TAATNAACTC ATCACCAGGA CAGTTGGAGG 60
GGGTAGGCCG AGGTTAAATG GTCCACGTTT CAAAAATGTT AATGGCTAAT CCATAATTAA 120
AGAAGTTTA ACTGTTACTG AAGTTTACAA GTTTTATTGT CATGNACATG AANTACAAAC 180
ACGATGGCTT CGAAATGTCT TTCAATAANT GTTCTGCAT TTAAA 225

SEQ ID NO:5219

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06229

SEQUENCE DESCRIPTION:

GATCTCATTC TCACCTCAGA AACCATTTAC AACCCAGATT ATNATAGTAA TTTGCACCAG 60
ACTTTCCTTA GACTGTAAAG TAAAAATGGA CGTGTACTTT TGGCCAGCAA AGCACATTAT 120
TTTGGTGTAG GTGGAGGTGT TCATCTCTTT CAGAAGTTTG TAGAAGAAAG AGATGTTTTT 180
AAGACCAGAA TACTCAAAAT AATTGATGAA GGATTGNNGA GGTTCATAAT TGNAATAACT 240
TTTAAGTTTC CTGGNTTANT TAACATTCAC TTGNGTGTCC ANAATTGGNG ATAGACNGNN 300
AGGCACANGN TGT CNTN 317

SEQ ID NO:5220

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06230

SEQUENCE DESCRIPTION:

01578

GATCATATAC AGTTCCTTT TAAAAAGCA ATAAATNCTT GGAATTAGAA A

51

SEQ ID NO:5221

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06232

SEQUENCE DESCRIPTION:

GATCAAGAAT GTTCCCAA GTTNTGAATA GAGTGTACA ATGTATCCAA GANTTGTGAA 60
GCAATGATTC TTTACAATAC AATAAAGTTT AATTATTTAC AAA 103

SEQ ID NO:5222

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06233

SEQUENCE DESCRIPTION:

GATCTCACAG ATGTNTGGAA TTTCAAAAAG CCAAACACAG AGAAGCAGAG TAGGATGGTG 60
GTTGCCAGGG CCTGGGACGT GGGGGAAATA GGGAGATGTT TGGTGTCTGT TAGGAAGAAT 120
GAATAAGCTC TGGAGAGCTA ATGTACAGCA TAGTGACTNN NGNTAATAGA ACCGTATTAT 180
ATACTTGANA TTTGTGAAGA GAGTAGATGT TAANNNNN 218

SEQ ID NO:5223

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06234

SEQUENCE DESCRIPTION:

GATCTGTAC TTAATTCTGT GTGACCTTTG AAAGGCTACT TATTCCTCT CTTAGCTTTC 60
TCATTAAAAT CAATGAACAA TGCCAAA 87

SEQ ID NO:5224

LENGTH:202

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06235

SEQUENCE DESCRIPTION:

GATCTCAGGC TGAGCAAAAT NAAACCTTGA TGTTACGGGC TAAATCAAGA GCAGCTTAAT 60
CCTGTTTACA ATGTGAGCTT TTTGTGCGTC TGTGAAATGT TTTACAGTGT TTCTCATCAT 120
CTGTTTCCCA GCAAGGTCTT TNNTTTNCN ACATTGAAGT NCTGNCTATG TATCTNAATC 180
ACAAATGGNT TCATTCACN TN 202

SEQ ID NO:5225

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06236

SEQUENCE DESCRIPTION:

GATCACAAGC GTATCCATNG TGAGGTTCCG TGGATGGAAG CTNATGGATN TNCCTTCCTG 60
ATGTTTCATCT GCCACCTTGC TATTNAATGC ATCCTGTTTA TAACTGTCTT CTAAATATTG 120
AATAGAAATA AAGCATTTGT ACAGTAAA 148

SEQ ID NO:5226

LENGTH:370

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06237

SEQUENCE DESCRIPTION:

GATCGAAATT GCGGGCTATG GCGCCGAAGT TTTTCGTNAG TACTGGGATA TCCCCGATGG 60
CACCGATTGC NACCGCAAAG CCTACAGCAC CACCAGTATT GCCAGCGTCG CTGACTGACC 120
GCCGCTGCCT ACAGAGTCAC ACTCAATCCT CCGGGCACCT TCCTTGAAGG AGTGGCTAAG 180
GTTGGACAAT ACACGTTTAC TGCAGCTGCT GTCGGGGCCG TGTTTGGNCT NACCACCTGN 240
ATCAGCGTCC ATNTCCGTNA GAAGCCCGGA CGANCNCNTG AACTACTTNN CTCGGTGGCT 300
TTCGCCGAG GCTTNACTTT TGGGGGNANG GACGTACAAT NTACGGGGTT TGGGGCCGCC 360
GNNTTTGGTN 370

SEQ ID NO:5227

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06238

SEQUENCE DESCRIPTION:

GATCTGTGTG AAGAATGGTA ATNACGTAGT TGNAAGGAA AATGTACTGT TGTGTGTTTC 60
ATTTGTGTGA TTTCGTACCA AAAAAATGTG TTTGAACTAT ATTGTATGTA ATTTGGAAGT 120
CGTGTTAATA AAACCCTGCA GTTCCAAA 149

SEQ ID NO:5228

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06240

SEQUENCE DESCRIPTION:

GATCAGGCTT TGAAGGCTGG ATTCTATCTA CATAAGTCCN TTCAATTCCA CCATGGGNCA 60
GAGCAGCTCC ACCACGTGTG CACTTAGCCA TNGNTGGCAA CAGAAACCAA GAGACACANN 120
TACGCAGGN 129

SEQ ID NO:5229

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06241

SEQUENCE DESCRIPTION:

GATCATTTAG GAAAAATAAT TCTATTTTTA GCTTTTCATT TCTCAGCTGT CCTNTTTCT 60
NNTTTGATTT TTGACAGCAA TGGAGAATGG GNTATATAAA GACTNCCN 108

SEQ ID NO:5230

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06243

SEQUENCE DESCRIPTION:

GATCAAGAGT TGTCATGCTA GGGAGACTAT TCTGCCTAAA ATTCTGGGGN ACTATTTTGT 60
GTTTAAGNAT ACTATGTATA TTAAAAGGGT ACATATTTGA AA 102

SEQ ID NO:5231

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06244

SEQUENCE DESCRIPTION:

GATCTTAAAA GTGTTATTTT TGCTTTTATT TTTTAAAAAA GGNNGAGGNT TATTGGCAAA 60

SEQ ID NO:5232

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06246

SEQUENCE DESCRIPTION:

GATCTGCAGA TAGTTCTTTT TCAAAATATT GTTTAGACAA AATAAATTC TTAAATATA 60
ATATCTCTAC TTCAAA 76

SEQ ID NO:5233

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06247

SEQUENCE DESCRIPTION:

GATCGNTCTG GTCGCAGCTT AGGAACAGCA GACGTGCACT TTGAGCGGAA GGCAGATGCC 60
CTGAAGGCCA TGAAGCAGTA CAACGGCGTC CCTNTGGATG GCCGCCCAT GAACATTGAG 120
CTTGTCACGT CNNNGATTGA CGCACAGCGG AGGCCTGCAC AGAGCGTAAA CAGAGGTGGC 180
ATGACTAGAA ACCGTGGCGC TGGAGGTTTT GGTGGTGGTN NNGGCACCCG GAGAGGCACC 240
CGCGGAGGCG CCCGTGGAAG AGGCAGAGGT GCCGGCAGGA TTTCAAAGCA GCAGCTTTCG 300
GCAGAGGAGC TTTN 314

SEQ ID NO:5234

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06248

SEQUENCE DESCRIPTION:

GATCAATACC AAAAGACACT TGGAATCTTC TTTTAGACTT CAGTACGATG ATTGCAGATG 60
ACATGTCTAA TTATGATGAA GAAGGAGCAT GGCCTGTNCT TATTGATGAC TTTTGGGAAT 120
TTGCACGCCC TCAAATTGCT GGGNCAAAAA GTACAACAGT GTAGCACTAA AGGNNCCTTC 180
TAGAATGTAC ATAGTCTGTA CANTAAATAC ANCAGTAAAT TGCACAGTCA GNANNNNN 238

SEQ ID NO:5235

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06249

SEQUENCE DESCRIPTION:

GATCTGCAAA CAATGAAGAA TTATGTAATA TATTGTACAA ATGTAAGCAA AGGCTCTGAA 60
ATAAAATGCC ATAGTTTGTG AAA 83

SEQ ID NO:5236

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06250

SEQUENCE DESCRIPTION:

GATCTTAAAT ATCTTGCAGC CTTAAATCAC TACAAACATT TGCATTNTTA TTATGCCAGT 60
TATTTCCAAA ANGTATTGTN ATACATGTCA CTTATGTTTT TAAGCTANTA TTGACTGTAG 120
GATAATCTCC TTGTTCCCT CAAAATAGTC ATGNAAGTGT ACATGAANNT NTTTTTAN 178

SEQ ID NO:5237

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06251

SEQUENCE DESCRIPTION:

GATCTGAAGA GCTTTGCAGC TCTNTTAAAT AGGTTGCTGN ACATGTTCTA AGGTTTTGTA 60
GAACACGTGT GCCTGTTTAA GTGTATTGAT GTTAATANTA TTAAATATCC TAATGATNGA 120
ATGCATTGTA TGGNTNCTN 139

SEQ ID NO:5238

LENGTH:363

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06253

SEQUENCE DESCRIPTION:

GATCTAAGCC ACAGNGGGGA CTGGAGCCTC GTTTTCCCC TAGGCAGACC TAAATCAAGC 60
 AGCTTACCAC AATAGTGCAT GCTGAGTAGA TTAGTTCCAA GGAAGGGAGA CTGGAATGCT 120
 GGTGTCAAGG AAAAGCCTCC CTCATCATCT AGTCTAAGAC CATAACGGGC AGAAGCATAA 180
 GAGGTTCCAG GGCCATAGGN GANTGAGAAG TAGGGCACAT ATAGGGAGGA AAGAAAAGTG 240
 NAGNNGGGGG ANATCTCCGA NTTTTTTTAC TGCTTGGGAA AAGTGACTA CATGANGNT 300
 GCTTNGGGCT TTGCTAACCT GCTCACCCT AACCCTNCCA AGTNTTACC ATCCCAGNG 360
 GTN 363

SEQ ID NO:5239
 LENGTH:171
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06254

SEQUENCE DESCRIPTION:

GATCTGAGGA ACAAATGAT GTCATTTAAT CGGAATCTAA ATGTGACACA AACAACGTGC 60
 CAGCAATACC TGCTTGTGAA ATAATGTTCT GAGCCACAG TGTTCTGGG TATGTGAGTT 120
 TATATCAAGT GAAAAGGCTG CTTAATTGAC ATTAAAGTTT TGGAATGTAA A 171

SEQ ID NO:5240
 LENGTH:348
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06255

SEQUENCE DESCRIPTION:

GATCATAAGT ATAAATGTCC TCGTTTAATC TTTCCATATT GAGGACAGCC TCTGCATATA 60
 AAAATGTTCA TTGGGAGAAA AATTATTTT AAAACTAAAT TTTTATAGTA GTCCTCCATT 120
 ACTGGCAATT AAGGAGCAAC CCACAAAATG TCATTATGTG GTTCTTTGAT TAGGCATAAA 180
 ANGTATTGCA AACAGCTTTN CTATTCCTTT GGAATATGAN TCTTTTAAAT GTCTAANGTT 240
 AACCTGCAAC ATATTCTAGT AGGACANGTC AATGTAAATN AGGTAATTNT NGCCTGTNTT 300
 ATACCTNCTG TNGCCATTTG GTNCAAATGN NAACCATTN TNAGNCCN 348

SEQ ID NO:5241
 LENGTH:357
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06256

SEQUENCE DESCRIPTION:

GATCAACAAG AGAAATAAAA AAGCCCAAGA GGAAGTGGTA GGGGAAGGAA TTTAAGAACA 60
 GCAATAAGTA AACTCTTAA GTAACCTCAA AAAGAAAATG GTACATTTTG CCAAAGACCA 120
 CTTATACTTG AGAATGGA AGAATTTGCC TGATACTNNN NGNNGGGGAA AAGAGTCTCT 180
 CCTCTTTTCC TCAAACCCCA GTACACTCAG CCTCNTGCC CCACCTTCTC CTGACTTTGT 240
 CCTCACTTGC TTCTGCAGTA CATTGGAACC TGNNTTGAAA GAAAGTCTTC CTTGANTAAT 300
 TGGAGTTTGT CTTGNGNGG CAAATTTAGN CCCNNGGNTC ACAAGNTTTC GGGGGTN 357

SEQ ID NO:5242

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06257

SEQUENCE DESCRIPTION:

GATCGGGGAC ATCCTTAGGC TGGTGGCCGG CCGCATCAAG AACACCTTCT GATTGAGCGG 60
TTGCCATGGC CGGTCTCCGT GGGGCAGGGT TGGGCCGCAT GTGGAAGGGC TCTGAGCTGT 120
GTCCTCCTTC ATTAAGGTT TTTATGTCTC GTGTCAGAAA 160

SEQ ID NO:5243

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06258

SEQUENCE DESCRIPTION:

GATCAGACTA AAAACNATAA CACCATAGGT CAAAANAAGT TGTTCTGAGG TTTTTTTGAA 60
ACATTAAAGN TCCAAACAT GACATTTTGA AGAATAAATT TGNAATAGAG TATAATTGNN 120
TN 122

SEQ ID NO:5244

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06259

SEQUENCE DESCRIPTION:

GATCTCCCCT CTCACCCCTC CCACCCATTA ATCTCCTCCC AAAAAACAAG TAAAGTTATT 60
CTCAATCCAA A 71

SEQ ID NO:5245

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06260

SEQUENCE DESCRIPTION:

GATCTGTTGT AATATATGGT GGATATTTTC CTTTAATTTC AAACATAACC TCTGAAATNT 60
GTATCTNTCC TTTTNTATCT TACCATTANT TTAAATCTA GTGGATTGGT TTTN 114

SEQ ID NO:5246

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06261

SEQUENCE DESCRIPTION:

GATCAGACCG CTCAAGGTC CCCGTNTTCA CTGTTACCCA GAGGCTCTTG TNACTACCCA 60
CTTCATTCCC CACCGCTGCC AGTGCCACTG CCAACCCTGT TCACAGGCGN TTCCAGCCCA 120

CTCCAGCCAG GGGAGCAGGG AAGAAGAAGG GGCTCCCTCC TCTTCACATT CCCCCCGACC 180
CCAAAGCCAG AGAAAGCCAG ATGGCACCAG CTGCTCCGGA TGTGCCTGCC CACATTGGGG 240
GACAGGGCCG GGCCTGGGCT CGGTTCCNAG GTTTGAGCTC TGCAGNCTGT GTCCTGGNGT 300
GAGGGGGCTG AAGTNAGNCC AAAGGAAGAA CTNAGTN 337

SEQ ID NO:5247

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06262

SEQUENCE DESCRIPTION:

GATCACCTNA TTTTTTNAAC AAAATATTTN TAACAGGAAT GGGTGGGAGT NCTGGTGAAA 60
AGAGGTGAAA TGTGGTTGTA TGAGCCAATC ATATTTGTAA TTNTTTAAAA AAAGTTTAAA 120
AGGAAATATC TGTCTGAAA CCCCACTTAA GCATTGTNTT NNTATAAN 168

SEQ ID NO:5248

LENGTH:378

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06264

SEQUENCE DESCRIPTION:

GATCAACAAA GAGGACTTTG TGGCACTGGA GAGGCTTACC CAGGGGATGG ACATTCAGTG 60
GATGCATGTT NCTGGTCATT CGGGATTTAT AGGCAATGAA GAAGCTGACA GATTAGCCAG 120
AGAAGGAGCT AAACAATCGG AAGACTGAGC CATGTGACTT TAGTCCTTNG GAGAACTNA 180
GCCAGCGGCT GTCTTGCTGC CTGTACTTAC TTGTGTGGAA AATAGCCTGC AGGTAGGACC 240
ATTGCAGTGA TGGGCAGATT GGGTCTTTCA CACGGNGTCA GGCACAGTGG CCTTCTGTNG 300
NCATGGTNGT TTTATANANA AATNGGTAA GGTATATAAA TAAAGTNTGG NCCANCTTTT 360
GNNAAGGNAN GANATGGN 378

SEQ ID NO:5249

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06267

SEQUENCE DESCRIPTION:

GATCANCTAC AGGAAAAGTA AATGTGAACG CAAGCAGAAT GAAACACAGT AAAAGCCGGT 60
CTAGCCTGCC TGGCCACACT CTCAGCGCCT TGTGAGGATG GGNCANTANA TAAANTCATC 120
TTAGTAGAA A 131

SEQ ID NO:5250

LENGTH:322

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06268

SEQUENCE DESCRIPTION:

GATCATCACT AGCAGATGTC AGTTGCACAT TGAGTCCTTT ATGAAATTCA TAAATAAAGA 60
ATTGTTCTTT CTTTGTGGTT TTAATAAGAG TTCAAGAATT GTTCAGAGTC TTGTAAATGT 120
TATTTTAATA ATCCCTTTAA ATNTNATCTG TTGCTGTTAC CTCTTGAAAT ATGATTTATT 180
TAGATTGCTA ATCCCACTCA TTCAGGAAAT GCCAGGNAGG TATTCCTTGG GGAAATGGTG 240
CCTCTTACAG TGTAATNTT NCCTCCTGNA CCTTTGCTAA TATCATGGCA GANTTNNCCT 300
NATCCCTTTG TGAGGCAGTT TN 322

SEQ ID NO:5251

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06269

SEQUENCE DESCRIPTION:

GATCAAAAAT AAGATTACAG TTAATATATT NCTATATTCA GATGGTTTAG AGACCAGGCT 60
GTAGAATCAG ACAGCCCTGA AATTGTATCA CACANGGCTG TGTTACCCTG TACAAATAAC 120
TTAGCCTTAC TAAGCCTGTA TTTCCTCATC TGCAAANTAG GGNTGNTAAT ATACCTGTNG 180
NTAAANATGT TTTCATTAAT AANCGTTGGC GCAAA 215

SEQ ID NO:5252

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06270

SEQUENCE DESCRIPTION:

GATCTAAAAGT GCAGCAGAGT GGCTGNTGCT GCAAGTNATG TCTAAGGCTA GGAACATCA 60
GGTGTCTATA ATTGTAGCAC ATGGAGAAAG CAANTGTAAA ACTGGATAAG AAAATTATTT 120
TGGCAGTTCA GCCCNTTCCC TTTTCCCAC TAANTTTTN CTAAATTAC CCATGTAACC 180
ATTTNANCTC TCCAGTGCAC TTTGCCATTA ANGTCTCTGC ACATTGAAA 229

SEQ ID NO:5253

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06271

SEQUENCE DESCRIPTION:

GATCGTGAAA GAGGCTTACC CAGACCACAC ACANGTTTGA GAAAAACAAT CCCCATATN 60
ACCCATCTAG CAAAGAGGAC AACCCTAAGT GGTCCATGNG TGGATGTACA GTTTGTNCGG 120
ATGATGAAGC GTTTCATTCC CCTGGCTGAG CTCAAATCCT GTCATCAAGG CNCACAANGC 180
TACTGNTGGC CCCTNAAAAA ATATTGTTNT NTGTCATN 219

SEQ ID NO:5254

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06272

SEQUENCE DESCRIPTION:

GATCACGCTG AAAGAATACC TTGCAGACAC TTAATCTCTG CGGCAAATGC ATGAAAGTAG 60
 AAGGATGAAG CCAACTTTCC AAAAATTCTT ATGAAATTAC TTCAGTGNGA AAACCTATTA 120
 AATNAANTNC AGCCNTTCTN TAAA 144

SEQ ID NO:5255

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06273

SEQUENCE DESCRIPTION:

GATCCCGGGG ACATGATGCG GGAAATCCGC AAAGTNTTGG ACGCCAATAA CTGCGACTAT 60
 GAGCAGAGNG AGCGTTCTN GCTCTNCTGC GTCCACGGAG ATGGGCACGC GGAGAACCTC 120
 GTGCAGTGGG AAATGGGAAG TNTGCAAGCT GCCAAGACTN TCTCTNNACG GGGGTCCGGG 180
 TNTN 184

SEQ ID NO:5256

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06274

SEQUENCE DESCRIPTION:

GATCAATGTG GGCACCTAAA AGGGTATGTT AAAATCACCA TTTCTCAGGT CAAAATACTG 60
 TGAATAAGTC TTCAATAGAA TCACTANTGG TTNAAA 97

SEQ ID NO:5257

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06275

SEQUENCE DESCRIPTION:

GATCATATCT ACATGTATGA ACTTAACATG GAAAATGTGA AGGAAGCAAA TGGTTGTAAC 60
 TTTGTAAGTA CTTATAACAT GGTGTATCTN TNTNCTTATG AATATNCTGT ATTATAACCA 120
 TTGTTTCTGT AGTTAATTA AAACATTTNC TTGGTGTTAG CTTTCTCAG AAA 173

SEQ ID NO:5258

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06277

SEQUENCE DESCRIPTION:

GATCTTTCTG GGAGCTGCGC CGGACAGAGT GGGGAGCTCC TAGTTTNTGG GGGGAAGCTT 60
 TGATATCCAT GCCACGTCCA TCCACCCAC CCCTNTTCGT CACGAGCACA ATGGTCTTAC 120
 ATTNATNTN TGTAAAAAAA TANAAATAAA TGGAGACTTT AACTCAAGCA ANNAAN 176

SEQ ID NO:5259

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06278

SEQUENCE DESCRIPTION:

GATCATTGTA ACCTAGGAGT TAGAGGCTGC AGTGAGCTAG AATTGCACCA CTGNATTGCA 60
CCTTGGACAA CAGAGTAAGA CTCCGTCACC AAA 93

SEQ ID NO:5260

LENGTH:296

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06279

SEQUENCE DESCRIPTION:

GATCAGGAGG CCACCCCTT CTGTGGCACT TCTGAGATGA CAACTTGTTT CACAGTTGGA 60
TGGGGGTGGG GAAGGAAAGA GCGGCCCCAT TATTCCAGAA CATTATATCC ACACAGGCTC 120
AGACACCCTG TGATGAAGAG TCCAAGAACA GCCTGAGATA AGGATGTCAT TNTNTTTCA 180
CAGGNCCCAC GATGGGTTTA TTTTTGGGA CCAAGACATT GGGTCCCTAC ATGTTTTCCC 240
CTACCCTTCT NNGGGAATAA AATATCAAAC ANCCNCANA GNTGTNNTAT TNNTGN 296

SEQ ID NO:5261

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06280

SEQUENCE DESCRIPTION:

GATCTATTGA CTTGTAGAGG TTTGGGACAA ACAGGAATAT AAAGATTATG GAATTGGGAA 60
A 61

SEQ ID NO:5262

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06281

SEQUENCE DESCRIPTION:

GATCACTGCA AAACCTAAGG AGGCCCGGGG CAGAGGAAAA AAATTTACCA CCGATGATTC 60
CATTTGTGTG CTGGGAATAA GCAAAAGAAA CGTTATTTTT NAACCTGTGG CAGAGCTGAA 120
GAAGCAAACG GATTTTAAGC ACAGGATTCC CAAAGANCAG TGGTGGCTCA AGCTACGGCC 180
CCTCATGAAA ATCCTGGCCA AGTACAAGGC CAGCTATGAC GTGTCGGACT CAGGCCAGCT 240
GGAANCATGT GCAGNCTGG NGTGTCTGAC CCAGTCCCGN CTGCATGTGC CTGCAGCCAC 300
CGTGGNCTGT CTCTTTTTTG TNACACTTAA GTTNTTTTN 339

SEQ ID NO:5263

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06282

SEQUENCE DESCRIPTION:

GATCTTATCT ACTTTCTCAT CTCCATATTT TGTTAAAGAT AATATTGCCA GATGTAAAGA 60
AAATGGTTTA TTCTACCTAA AGAGTGGATA AGGAGAGAAN ATTATGATGA AATAAAAATT 120
ATAAGCAAAG TTTATTTAAN CTAAATTTAA ATGTGAAACA TCACCTTTTT CCTANTCAGA 180
TTTGATATTG CTACGGATAT ATNTTGNTGA TATNGTCACT ATATANNCAT ANGGGGANTT 240
TNACTNTCTA TTACCCTN 258

SEQ ID NO:5264

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06283

SEQUENCE DESCRIPTION:

GATCTCTCTC CTCTCTGACC TGGATACGCT TTGGTTTCTC AACTTCTCTA CCCCAAAGAA 60
AAGATTATTC AATAAAGTTT CCTGCCTTTC TGCAAACATA AA 102

SEQ ID NO:5265

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06284

SEQUENCE DESCRIPTION:

GATCTAGATT TGAAAGTAAA TTTTATGAAG ACATTGCCCA TTTTACTTC CTCATTCATT 60
ATTGTACCAG CATCATAGCT TTATTACTCT AATCCCAGGT AAGTCAAGCC TACTACTGCC 120
TAGNGGNNGC GTAAACCCAG AANTTCATGC TGGCTTAANT AATCTATTTT TGTCTCTNAT 180
CNTTTGAATN TTAAAN 196

SEQ ID NO:5266

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06286

SEQUENCE DESCRIPTION:

GATCAGCCTG GGCAACATGG TGAGACCCTG TCTCTACAGA AAAGACCTGA AAATTTTAAA 60
AAAAAGTATA AAGCCAAGCT GTTACCCAGC CACCTTGCTC ACATATTCTC AGGACCTGCT 120
GAGGTGGTTT CACAGGTCAT AGTCCTCACA TTTGCTCAGA ATAAATATCT TCAAATATTT 180
AAANNNNGGN NANAATNTNT GNN 203

SEQ ID NO:5267

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06288

SEQUENCE DESCRIPTION:

GATCTGGACT ATCCACGTGC TTTGAAACTT TTCCCTCAC CCTCCAGCCC TGGAGGCTTT 60
TGCTGGGATG AATGTTTTTA TAGGGTTTTT GTGTAAACAT AAGCTATTTT CTAATATGCT 120
GCCAGGTACC CTAAA 136

SEQ ID NO:5268

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06289

SEQUENCE DESCRIPTION:

GATCTNGGAC TACNACTGGA CTACTAGCCT CCAGAACTAT NAAATAATAC ATTTCTAATG 60
TCTAAGCCAA A 71

SEQ ID NO:5269

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06290

SEQUENCE DESCRIPTION:

GATCGGTTTT TGTGGGGAAT CTCCTTATA AAGTTGAAGA ATCTGCCATT GAGAAGCACT 60
TTCTGGACTG TGGAAGTATC ATGGCCGTGA GGATTGTNAG AGACAAAATG ACAGGCATCG 120
GCAAAGGGTT TGGCTATGTG CTCTTTGAGA ATACAGATTC TGTTCATCTT GCTCTGAAAT 180
TAAATAATTC TGAATCATG GGGAGAAAAC TCAGAGTCAT GCGTTCTGTT AATAAAGAAA 240
AATTTAANCA ACAAATTCA AATCCACGAT TGANGAATGT CAGTAAACCT AAGCAGGGAC 300
TTAATTTTAC TTCCAAAAC GCAGAAGGNC ATCCTAAAAG CTTGN 345

SEQ ID NO:5270

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06291

SEQUENCE DESCRIPTION:

GATCTCTGCT GTGCAGGTGC TAAGATTAAA CACTAAAAAG AAAGAGAGAT ATATGTAATG 60
TACAACTGAC ACTGCCATTT TNCCTTTTTG GAGGAAATGG ACATAGATAA AGAAGATATT 120
TCTNCGGTTA AA 132

SEQ ID NO:5271

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06292

SEQUENCE DESCRIPTION:

GATCTTCTGC CAAGTAATTT TTTTGCACAA TTTTCCTGTN CCAAANTTTA CTCAGTTAAA 60

AGTAAANAA TNCTTTACAC GTTTTAGGTT TTAGGACATT AAAAGTATGT N 111

SEQ ID NO:5272

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06293

SEQUENCE DESCRIPTION:

GATCATCTTA CGATATCAAG CTGAAAATTT CACCACTACC TGGACAGTTN CACATGTTTT 60
ACTGGAATA TTTTTCTTT NTTNNTGTA TGCTCTGTGC TAGTAGGNTT GATTGAN 117

SEQ ID NO:5273

LENGTH:232

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06294

SEQUENCE DESCRIPTION:

GATCATATTC ATTATGAAAG GTCAAGCAAA GACAGCAGAN TACCAATCAC TTCATCATTT 60
AGGAAGTATG GGAAGTAAAG TANGGAAATC CAGAAAGANG CCAAGATATA TCCTTATTTT 120
CATTTCCAAA CAACTACTAT GATAAATGTG ANGAGGATTC TTTTTNTTG TGACCTATAA 180
TANTNTACA NGCTTTCATG CATTTACTTG GTCCTAAGCA AATTIANNGC AN 232

SEQ ID NO:5274

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06295

SEQUENCE DESCRIPTION:

GATCAAGTAT AATGTTAGCT GCAGGTTTTT AATAAATACC TTAATTCAGT TTGAAA 56

SEQ ID NO:5275

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06296

SEQUENCE DESCRIPTION:

GATCCTGAAC ATGTGCTGAT TTNAATTGTG CTATATAGTA TATAAANTAA AATANTTTTG 60
GTATTTCTGC AACGTGACCT GATAATNAAT CTATTCATCC TGAGNAAGCT ATACTTCTGT 120
CCNTN 125

SEQ ID NO:5276

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06297

SEQUENCE DESCRIPTION:

GATCATTGGT TCCANNCACA GGTNTAGTAA TNNTGGGTAC TTTAAGGTTT GGAGCACTTA 60
 CAAGGCTGTG GTAGAATCAT ACCCCATGGA TACCACATAT TAAACCATGT ATATCTGTGG 120
 AATACTCAAT GTGTACACCT TTNACTACAG CTGCAGAAGT GTTCCGGNTA GACAAAGTTG 180
 TGACCCGGGG NNCTCTGN 198

SEQ ID NO:5277

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06299

SEQUENCE DESCRIPTION:

GATCTCAAGT TGTATAAAAC CAATAAATTT GTGTTACTGC AGTAGTAATC TTATGCACAC 60
 GGTGATTTC TGTATATAT GCAAAGNAGG CAACTGTTTT CTTAGTTACA GAAGTTTCAN 120
 GCTTCACTTT TGTGCAGTAG AAACAAAAGT AGGCTACAGT CTGTGCCATG TTGATGTACA 180
 GTTTCTGAAA TTGTTTTACA AGACTTTGAT AATAAAACCC TTAANCTTAA A 231

SEQ ID NO:5278

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06300

SEQUENCE DESCRIPTION:

GATCAAGNGC CATAGCCTTT ATTCAGGGGG CCTATAAACC CTTCCAGTTC TTGCCCCAGG 60
 GCTGGCCTGC TAGCGCTTCA AATTCCCAGG TGTCCCTAAT TTNAGAAGTA ACCTTTTGGA 120
 ATAGCATTAG ACCCTGGCTG TCCCCTCCCC ACCAAATAAA CATGATATTT CATTCTNAAA 180

SEQ ID NO:5279

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06301

SEQUENCE DESCRIPTION:

GATCAAGNNT ANTGCAGCCN TTCTTTTCCT ATTTCTTTTT TTNAAGGGTT AGTATTAACA 60
 AATGGCAATA AGTAGAAAAG TTAACATGAA GATTTTAGAA GGAGAGAACT TACAGGACAC 120
 AGATTTGTNA TTCTTTGACT GTNACACTAT TGGATGTN 158

SEQ ID NO:5280

LENGTH:375

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06302

SEQUENCE DESCRIPTION:

GATCGAACAT NACGTGGTGA TGAAAGCCAN CAGCAGCCTA CCCAAGAAGC TGGCACTGCT 60
 GAAGGCCCCA GCCAAGAAGA AAGGGGCAGC TGCGGCCACC TCCTCCAAGA CACCTTCCTG 120

AGGACGCTGG CCCAGTGCA GGCCAACATC NCACCCCTA CCTCCATATG GGACCTTGCA 180
GGTAATCCCA CAGGCTGCAC TGTCAGGGGG GGGACCCTGT CCCCAGCAC TGGGCTTCAC 240
CTAGAACTTC AGTGGGGGCC AAGGGTGCTG AGAACCAGC AATGNCCAGG ANGATACAGT 300
CACTAACTT CATCTGTCCC CGTGCCCTT CCCAGGTCCT GNTTCACAGG TTTAACCAG 360
NACANTAAAN CCTNN 375

SEQ ID NO:5281
LENGTH:272
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06303

SEQUENCE DESCRIPTION:

GATCAGGATG AGATTTAATG CCCATATCTT ACCAGTTCAG TAATCTCCAG AGCCATTTC 60
CCCTTTAGAG TGAGTCACAT GCAGGGAGTG TGAATGTCAG AGGTGGTTTA TTATCCAGTC 120
TGCCTTACCC TTAATCTGTT CACAGATATT TATTTACTAA TGCTTTTTTT TTCTTAAGAG 180
TTATGGGATA GGAAAATGAA GTGTTTGCTC TTCATTTACT AAATGATTGT AAAGTTGAGT 240
TTTTTCATCA AATAAAATTC CATTGTTTAA AA 272

SEQ ID NO:5282
LENGTH:379
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06304

SEQUENCE DESCRIPTION:

GATCCAAGGC CACAAGTAAG GCTATGGCTC TAATTCTAGA AGACAACCTT CCAAGATGCC 60
TGGCAAAACC ACCTCCCTGT GCCACACAGA CACACTAGGC CTGTGTATTT ATTTCCCTT 120
CAAAGCAGAC TGAGGAGGGA GGAGACGAGG TTCTCTTGGC ATCACTTTCT CCCTGGCTGC 180
AGAACTAGAC ACCCTGAAG ATTTGGCCTG GGCCAGTNAG ACTGAAATCA AGAAAAACAG 240
AAGGGATGTG CAGGGTGGGG GGGTNCACTT CCTGCTCCA TGTCACCCC CAGGGCCTCC 300
AGCGTGCAGA CGCGTGTCTT ANTTNATCTG CTCCCACGGA TGANCCTGGT CTTCAATGGG 360
TTAGCAGNNG NGAGATNTN 379

SEQ ID NO:5283
LENGTH:377
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06305

SEQUENCE DESCRIPTION:

GATCCTCTGA AAAGGCCAG AAAAATAGCT CAGTTCAAAT ACAATGTTCT AGGACAATTG 60
GAATATAAAT ATTGTCCAAA AATATAATTA AAAGAAAAAA GTTAGCACT GTGTAAAGTA 120
AGTGTTAACT GAGGAAGTCC CAAAAGGTG CTGTCACTTT AAGTCTGGA CTTGGGGTTC 180
TTTGTAATTTG TAAACAGCAA NGCATTGTG TTTGTTGTC TATTTGAAA GCANCCACCT 240
TCCTTATTGG NAGNGANAA NNNGGGTNC ATNCATGTNA NTAATTGCTG CAGCATTTNA 300
TATGTTTAT TTTGTGTTAN GCTTTTGTG GCATCGTGN CACATTTATT GTTACCAATG 360
GACATGGGTT CTTTGTN 377

SEQ ID NO:5284

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06306

SEQUENCE DESCRIPTION:

GATCGTAGTG TTTTAAATA AACACAGTCC AGACTCAAAC GGAGGAAGCC CACATATTCT 60
ATTATAGATA TATAANTANT CACACACACA CTTGCTGTCA ATNTTTTGAG TCAGTGCATT 120
TCAAGGAACA GCCACANAAT ACACACCCNN N 151

SEQ ID NO:5285

LENGTH:325

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06307

SEQUENCE DESCRIPTION:

GATCAACTGA GGAAACTCCA GGCCATGGTG ATTGANATAT CAAACAAAAC CAGCAGCAGC 60
AGCACCTGCA TCTTGGTCCT ACTAGTCTCC TTCTGCCTCC TCCTTGTAAC TGCTATGTAC 120
TCCTCTGACA CAAGGGGGAG CCTGCCAGCT GAGCATGGNG TGTTGTCCCG CCAGCTTCGT 180
GCCCTCCCCA GTGAGGACCC TTACCAGCTG GAGCTGCCTG CCCTGCAGTC AGAAGTGCCG 240
AAAGACAGCA CACACCAGTG GTTGGACGGC TCAGACTGTG TACTCCAGGN CCCTGGCAAC 300
ANTTCCTGCC TGCTGCATNA CNGAN 325

SEQ ID NO:5286

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06308

SEQUENCE DESCRIPTION:

GATCTGCCTC CTGGGAAGGG AAGGGGCCAA TGTCAGCCTC CAGGTGATTT CTTTAATCTG 60
ACATTACAAA GAGACCAACA GACTGCCAAT TCTACCACAT TCCCCTGGTG GGTACTCGAC 120
TATGTAGTTT TNTCTATGCT TCTGGTCAAC TCTGACACAT CTTGGAATTC TTGTAATAAG 180
AAAAGAAATT TTTATACTTT TAAA 204

SEQ ID NO:5287

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06309

SEQUENCE DESCRIPTION:

GATCCTCAAA CAGTCGGACC AGATGACAGC CAAACTCTGC TAACCCGGGA CTCCTTGCCA 60
TGGACTTTTC CTGTTGTTGT ACACACACAA CAGAACAAAA TGANGCAAAA CAAAACAAAA 120
AAACCCACAA AANTTTGTAA AATGTAATTA ATATTCAANG AAAAGGNGGA AANTCTTCAT 180
TTGTTGGAAA TGAAANCGTT CTAGCAACTG TAANNNANN 219

SEQ ID NO:5288

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06310

SEQUENCE DESCRIPTION:

GATCTTAAAA TTCATCTAGA TTTCAAGCAT TCAGCTGACT TGCCTCATAA ATGTAGTGAC 60
TGCTTGATGA GGTTTGGAAA TGAAAGGGAA TTAATAAGTC ACCTTCCAGT CCATGAGACA 120
ACTNGATTAT TCTCTNTAAC TTACAGAATG TTAGTNTAAA ATAATAAATN CATCCTTNTT 180
TTGGAGATGA TTAAATGGAT GATTGTAAAC ACAACTTATG AAATCTGCCT NTAACAAGTA 240
NCTTTNTTAA ATNNTANNN 259

SEQ ID NO:5289

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06311

SEQUENCE DESCRIPTION:

GATCTTATTG GCTGATGGTG TTGTTGAATT CTATATCCTG TTGATTGCT GTCTAGTTGT 60
TCTATCAATT ATTAAAAGAG GAATGTTAAT GTTTCCAA 99

SEQ ID NO:5290

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06313

SEQUENCE DESCRIPTION:

GATCAAATAC TTAAAGGAA AAAATGTTGG ATTTATAAAT NCTATTTTTT ATTTTACTTT 60
TATAATAAAA GGAAAAGCAA A 81

SEQ ID NO:5291

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06314

SEQUENCE DESCRIPTION:

GATCTGAAGG CCGTTCCAAG CGAGGGTGCT TCTGAGGACA CTGAGAAGAG TTTTGCCATT 60
CTGAAGAGGC GAGCCTGTGG AACTNTTTAA GGTCCTGTTC CCAGAAGAAT AAAAGTTTCT 120
CATTATGGCA AA 132

SEQ ID NO:5292

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06315

SEQUENCE DESCRIPTION:

GATCACTCTC CCTGACATCC ACCTGTATGA CTTTGTACC AAATGCTGTC TTCTCTTCT 60
CCAATCAAGA AATAATAATC CCTCGAGTTT AAAAAACACA AA 102

SEQ ID NO:5293

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06316

SEQUENCE DESCRIPTION:

GATCTCANCT TCATGCCAGG CCTTGGGTTT GACAAACATG GCAACCGACT GGGGAGGGGC 60
AAGGNCTACT ATNATGCCTA TCTGAAGCNC TGTTTGCAGC ATCAGGAAGT GAAGCCCTAC 120
ACCTGGCGT TGGCTTTCAA AGANCAGNTT TNCCTCCAGG TCCCAGTGAA TGAAAACGAC 180
ATTGAAGNTA GATGNN 196

SEQ ID NO:5294

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06317

SEQUENCE DESCRIPTION:

GATCAAGAAG TTTGTGTACA CATAATCTCA TTTNAGATA TATAACTATT TTTNTCTTTC 60
AGAAGTGAAT CAAAATATTT CAAAATGCTG TCTTATGAAA CTACAATATT CTCACAGATT 120
AGAAAAGTTT TNCTGTAAAA GTCAGATAGT AAATATTNA GGTTTTGCAG TGTCTNTTGC 180
ANCTNCTCAA CTTTCTACT GTNGCACANG NGTAGCTGTG GTACTGTGCA AATNAAN 237

SEQ ID NO:5295

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06318

SEQUENCE DESCRIPTION:

GATCACTACC TTTTTTCTC TNATCTGCTG CCATNTGAGA TGTGGCTTTC ACCTTCCGCC 60
ATGATTGTAA GGCCTTCCCA GCCCCGTGGN CCTGTAAGTC CANTAAACCT CTTTGTAAA 120
TTAAA 125

SEQ ID NO:5296

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06319

SEQUENCE DESCRIPTION:

GATCTTACAG ACTGTATCAG TCTAATTTTT AAATTTTAAG TTATTTTGTA CAGCTTTGTA 60
AATTCTTAAC ATTTTATAT TGCCATGTTT ATTTTGTTG GGTAATTTGG TTCATTAAGT 120

ACATAGCTAA GGTAATGAAC ATCTTTTCA GTAATTGTAA AGTGATTAT TCAGANTAA 180
TTTTTTGTGC TTATGAAA 198

SEQ ID NO:5297

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06320

SEQUENCE DESCRIPTION:

GATCTAATTT CCCTNTTCAC ACAAACTTTA CACTTTAATC TGATGATTGG ATATTTAATT 60
NNAGTGAACA TCATCTTGTT AGCTAACTTT AAAAANTGGA TGTAGAATGA TTAANGGTTG 120
GTATGATNN 129

SEQ ID NO:5298

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06321

SEQUENCE DESCRIPTION:

GATCTGTGCC ACTTGTGTCA GAGAAGAAGA AACACGTAGN GCAAGTTGTA AAATAATTGG 60
TATTCCTAAC AATCCTGATG TATAATTNTT TGTTACTTTT GNTTTGAGAA CTCTACANAT 120
AAAAGTGCTG GGACTAGATT AAA 143

SEQ ID NO:5299

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06322

SEQUENCE DESCRIPTION:

GATCTCTTCG ACTCCTACGA CCTTGGGGAC CTGTTGATTA ATTGAGTGGC CCTGCCTGCC 60
CCCAGCAGCC TGCCCCGAC TCTACCTCCT CACAGACAGG CTGACAGCCC CTCTGCCTGC 120
ACAGGGACAT TGGACACTAG GTGCTGCCCT CAGGGCATGG GGTCTCCTCG CCTTTCCTGC 180
CCCAGCCGGC AGAAGCTGTG TGGGGNGNNA TGAATGGTAC GGGTGAGGAG TGGATAAGGG 240
GTGGTCTCA CCTTNCTAAT GGAAGCTGGG CCTAGGGAGG CCCATNCAGT CTTCTGACTT 300
CTNGACCTCT NACAAGAAGG NTGCAGGTGA GGTN 334

SEQ ID NO:5300

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06323

SEQUENCE DESCRIPTION:

GATCTGGAGC CAGCTGGCTT TGCTCCGTTT CCTGGCTAGT CTGTGCCTGG TCACCAGGGA 60
GGCTGAGTGA GGGGCTGTGA ACAGTTGCCG GAAGCACCCC CTCCTCCCC GGGCCGTGCA 120
GCAGTGTCTG AGCTGTAGTG AAAGTTTCAG GGCCTGCAAA AGAAGAGGCT TGGGCACAGG 180

ACTGACCATN GCTCCAGGGG TTTAGGACCC CCAGGNCNGT GAAGGTGGGA GCAGCTCACC 240
ACCTTTNACG CAGGCTTTGG TATGTTCTCT NAGGCTTAGT TGATTTTGGG CCCNAAANCA 300
AATNCAAAAG GTTCTGGGC CAACCTTTG TTAANTN 337

SEQ ID NO:5301

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06324

SEQUENCE DESCRIPTION:

GATCACAGCT CCAGGACCAG TGCAGGCTGG CTGCCCTCTT TTGGCCGCGT CTGGAATAAT 60
GGACGCCGCT GGCAGTCCAG ACATCAATTC AAAACTGAAG CTGCAGCAAT GAAGAAGCAG 120
TCACATACAG AAAAAAGCTA ATCATGCTCT CTACCAACTA CCATGAGGCT AGNAAGCAAA 180
GTCAACAAAC CCCTATTATA CCTTCCACCA AATTCTTTAT CATTGTCTTT CTTAGGAAAC 240
AGNCATACTC ATTCATTTGA TTTANTAAGG TTTTATTTT CCAANGTNTG NTGTGGNTGN 300
TTNGGNNNNN TTGTGGTGGT TGNGNN 326

SEQ ID NO:5302

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06325

SEQUENCE DESCRIPTION:

GATCTTTNAT TTACCTGTAC AGGAGTGTA ACTTTTTNGT GNTTTTATTT TTCAATTGTG 60
AGAACCACTG ATTGGTATGT TCAACAAATT TGTGTATACA AAGAAATGGA TAAATCACTG 120
CTATATANGG GAAACTACCT TAGGAAAGAN TGTTTACTGA ATGTTTATNN NATN 174

SEQ ID NO:5303

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06326

SEQUENCE DESCRIPTION:

GATCAGTGAT ATTTGATGTT AGTGTGTAC TATAGGGTGC CAATAACTCT GCCTATACAA 60
GATGGTGAT TTAATCAATA AACGTGTATT CTGACTGCCT TAAA 104

SEQ ID NO:5304

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06327

SEQUENCE DESCRIPTION:

GATCCTTCCG TCTCAGCTCC CCAACCCAG TAGCTGGGAC TACAGTTGCA CATCATCATG 60
CCTGGCTAAT TTTTNNATTT TTGTAGAGGT AGGTTTCACT ATGTTGCCCT GGCTGGTCTT 120
GAACTCCTGG GCTCAAGTGA TTCACCTGCC TCGNCTCTC AAAGNGCTGG TGTTACNGG 180

CATGAGCCAC TGTGTCCGAC CCANACCTAC TANTGTAAAT NGANNTTTTN TTAACNN 238

SEQ ID NO:5305

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06329

SEQUENCE DESCRIPTION:

GATCAACAGA GTGAGACCCC TGTCTATATA TTNNTTAAAT TTAAAAATA AAAGANTAAA 60
ATTGTGTAGC TCAGTATAGT ATCAAGATTA ATCTGCCTAC TCACATTCT ACACTTTATA 120
NNANTGTAAT AN 132

SEQ ID NO:5306

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06330

SEQUENCE DESCRIPTION:

GATCCAGCCA TNACTAACCT ATNCCNNTT TGGGGAAATC TGAGCCTAGC TCAGAAAAAC 60
ATAAAGCACC TTGAAAAAGA CTTGGCAGCT TCCNGATAAA GCGTGCTGTG CTGTGCAGTA 120
GGANCACATC CTATTTATTG TGATGTTGTG GTTTTATTAT CTTAAACTCT GNTCCATACA 180
CTTGATAAAA TACATGGATA TTTTATGTA CAGAGGTATG TCTCTTAACC AGTTCACTTA 240
TTGTNCTCTG GCAATTTAAA NGANNGTCAG TAAATNTTT TNCTTGTAAG AGN 293

SEQ ID NO:5307

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06331

SEQUENCE DESCRIPTION:

GATCAAAACC CAGCAGAGTG CAAGCAGCAG TGAAGCAGGA TGTATGTGGC CTTGAGGATA 60
ACCTNCACTG TAATAGCCTA AACACANCTC TAATTTACTT ACAGCCTTAT GTTTTGTAT 120
TGNCTTGGTA GACTAGGTAA TTTTTTTTAA AAGGNCAGGN GACGGNTATT TTAAAGNCCA 180
ATTTGTTCTA CGTAGCATNT TAACTAGTTT TNNTGCCAGC NATGTTGN 228

SEQ ID NO:5308

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06332

SEQUENCE DESCRIPTION:

GATCCCTGAA GTTGCCCTGG TCTCTGCACC TTCTAAACCT AGTTCTTAAG AGCTTTCCAT 60
TACATGAGCT GTCTCAAAGC CCTCCAATAA ATTCTCAGTG TAAGCTTCTG AAA 113

SEQ ID NO:5309

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06333

SEQUENCE DESCRIPTION:

GATCTGTCAC TGTCTCCCGT CACCCNCAGA TGGGGCTGTC TAGTTGCAGG AAAACAAGCT 60
CAGGGCTCCC ACTGAGTCTC TGTGATNGTG AGTTGTAGAA TTATTTAANN ATATGTTACA 120
ATGTAATANT AGTAGAANTA AAGTGCACAN TAAN 154

SEQ ID NO:5310

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06334

SEQUENCE DESCRIPTION:

GATCTCTTTC CCTGTCTTGG AGGTGAAAAG TNATATCTAA GGNTNTGTTT GCAGTGACCC 60
CTAGTTTGGG GTACACAGAC CAGTGTTTCTT NATTGACAGT GTTCAATAAG GCGCCGTCAT 120
TCTCGCCAGT NTNTTGTGTGT NCTTAATGGG CTCCTCCTTG AANTGTGTGT GTGTTTGTGT 180
CAAGAGGAGT TNGTGTTCCTT GGTAATAAAA GNTN 214

SEQ ID NO:5311

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06335

SEQUENCE DESCRIPTION:

GATCTCTNCG ANTNAATTTC AATCTAGGGA AAAATGGCAG AGAAGTAAAT GGATGTNCTG 60
GTGTCAATAG ATATGAAAGT GTTGGTTGGC GACTTGCAAA TCAACAAAGT TTAAAAAATC 120
GAATNNN 127

SEQ ID NO:5312

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06337

SEQUENCE DESCRIPTION:

GATCGAGAAT NACNATNTTT TGTAATGGA AATACCACTA CTAAAGACAG AATGCTATAA 60
ATAGAAA 67

SEQ ID NO:5313

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06338

SEQUENCE DESCRIPTION:

GATCTTCTGT ACTTCTGTCT TCCATAGGAC AAATNATAAG TACTACATAC CTCATCTCTT 60
GGGTTATNAT TGTAGTCTTG CATTGATGAT TATNAATTAA AAAATAAATA CCAATTATGG 120
AAATTGTAAA 130

SEQ ID NO:5314

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06339

SEQUENCE DESCRIPTION:

GATCTACATN AGGAAAAGTA TAAGCCCCCT CCCTAATGGC CGCTGGGNGG TGAGGGCGGT 60
GTGTTGTATG TCTTTGGGTG TTTGTTNNTT NATAAAGCAT ATAATN 106

SEQ ID NO:5315

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06341

SEQUENCE DESCRIPTION:

GATCTNAAAA AGAGAGAAGA AAATAAAAAG TATTATTTAT ATGTCAGTGC CAACTTTGAA 60
GGTAAACAG TAGTAGTAAC TTTTGGGAGA AATTCTAAAA ACTACTTTAA AAAGAAGCGT 120
GCACATAAAA TAANTATCTT TCTATCCAAG GCTTGTCATT TNATATGCTT TNNTTGTAAG 180
TTTAANATNN NGCTN 195

SEQ ID NO:5316

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06343

SEQUENCE DESCRIPTION:

GATCTAATTA CTTATAGATT CTGTAGTCTN GNGAAGGNGT GGGTGACGTG ATGAGAGGTT 60
TGAGAAATGG GTGAAATGAA ATGGGGGGAT ATGTAGGTCA AATCANATNA AAGATGATTT 120
TTTTNATGTG AATAAN 136

SEQ ID NO:5317

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06344

SEQUENCE DESCRIPTION:

GATCAGCTTA AGGNTTTAGC GCTGGTGGAT AGACACTCGA GACCAGAAAT CATATTTTTN 60
CTGAAAGTAG ATGATTTACC TGAGGATAAT CAGGAACGTT TTAATAGCCT TTNCTCTCTA 120
AGGGAGAAGT GGACAGAAGA AGATATTGCT CCATATATTC AAGATTTGTG TGGAGAGAGN 180

SEQ ID NO:5318

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06345

SEQUENCE DESCRIPTION:

GATCGCGGTA TATAGAGATA TGCATTTTAT TTTACTTGTG TAAAAATATC GGACGACGTG 60
GAATAAAGAG CTCTTTTCTT AAA 83

SEQ ID NO:5319

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06346

SEQUENCE DESCRIPTION:

GATCTCCTTA GGTGATGCAC AGTCCAACTA CCTGCTAACC ACCGCCGAGA ACGAGCTGGG 60
AGTGGTGGTA GCCCAGAGTG AGTCAGGTAT CCAGATGGTT CCCATCAGCT GGTGTGAGAT 120
GCAGTGCCTT AAGACCCACA CTAAAGAATT CCGGAAAGTA GCCCGNGTAC AACCCGAATN 180

SEQ ID NO:5320

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06347

SEQUENCE DESCRIPTION:

GATCAGAGAA TCACAAGAGC AGCAAATGTG GTTTCATCAA GTGGGAAGAA AGCAGCAATT 60
TAAATANCT TTTTGGGNGA CTGANTTGA TAATAATAA NCTTCAGTCT TTCGCTAATN 120
ATANTN 126

SEQ ID NO:5321

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06348

SEQUENCE DESCRIPTION:

GATCTAGACG CCCCCAAATC CTTGAGATGT GGGTATAGCT CAGGGTAAGC TGCTCTGAGG 60
TAAAGGTCCA TGAACCCTGC CCCACTCCTG TCAGCCCCTC ATCAGCCTTT TCAGCAGGTT 120
CCAGTGCCTG ACTTGGGATA GGACTGAGTG GTAGGAGGAG GGGGAGTGGA GGGGCATAGC 180
CTTCCCTAA TTCTGCCTTA AATAAACTG CATTGCTGAT TCAAA 225

SEQ ID NO:5322

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06350

SEQUENCE DESCRIPTION:

01602

GATCAGCAAA TTGTTATNTT AAAAAGTTTT CTGTTTAGG CAATTTGGTA AGTGGTTTCT 60
 AGTTATAAAC TAGCCACTGT TGATTAACCT GAGAAGGTGA AGCAGGGGAG TTCTGAAGAG 120
 ATTACCTAGA GCTACTTAAC CCTAAGTTAA GTAAAATTTT CACTTTCATT CTTTTCATTC 180
 TCTCATAAAC TGGTTGAAAA AACACTGTAC TACCAACAAA GGTGTCAGTT GCTTGTGCTG 240
 CCCTGTCTAT GTTATGCTCT GAATAGGTCT CGGTAAAGAT TATATGGAAA TACTATAAAG 300
 NNTACATAAG GTAAAATACT AGTCAGANAG GGTTCAGGT N 341

SEQ ID NO:5323

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06351

SEQUENCE DESCRIPTION:

GATCTGAAGT NCTTCCATTA TATCTATATC TGTATATGNA CATATATGTG GGTGTGTATA 60
 TATATGNGTG TATGTATATA TATACAATTN CCTGAGAACT CACTNTTTTT TGTGAATTN 120
 CAATAGTGTT CGCCATGTTT TCCACCAGNA TGTATAN 157

SEQ ID NO:5324

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06353

SEQUENCE DESCRIPTION:

GATCAAGTTT TGATGAAGAT GTGAAAAACN GTTGGGCAGT ACTACTCAAG CTGAACCCCA 60
 TGCATCAGAG AAATTACACT TTTATATNTC CAAA 94

SEQ ID NO:5325

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06354

SEQUENCE DESCRIPTION:

GATCTGCCCT NCTCAGCCTC CCAAAGTGCT GGGATTAGAG GCGTGAGCAC CATGCCTGGC 60
 CAGGTCTTNC TAACTAAAAA ATAATAATAA TAATAATAAA AAANAAAAGA NGATACTTGC 120
 AAAATAAA 128

SEQ ID NO:5326

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06355

SEQUENCE DESCRIPTION:

GATCAAGAGT ATTTNCTNTA GCTAGCTTAA AAAGAAAACA TATATTTAAT GTAAAANCAC 60
 ATACATGGCC AAATGCAATA CTGANGAGAC AATCATCCTG TATCTTTNAT GGTTTTN 117

SEQ ID NO:5327

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06356

SEQUENCE DESCRIPTION:

GATCAATGCG CTAGTGCAGG AGCTCGGCTT CTACCGCAAG GCGGCGCCCG ACGCGCAGGT 60
GCCCCCGAG TACGTGTGGG CGCCCGNAAA GCCCCAGAGG AAACCTTCGA CCACGCTGAC 120
CTNTAGGTCC GGGGGCGCGG CGGANCTGGG ACCTACCTGC CTGAGTCCTG GAGACAGAAT 180
GAAGCGNTCA GCATCCCGGG AATACTTCTC TTGCTGAGAG CCGATGCCCG TCCCCGTGGC 240
CAGCAGGGAT GGGGTTGGGG AGGTTCTTCC AACCNAGACTT TTTTCCTTC CNCAAGNTCC 300
ACTAAATTT CCCTTCTGCN TTAATAAAAA AANN 334

SEQ ID NO:5328

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06357

SEQUENCE DESCRIPTION:

GATCAGCCAA ATTGGGCGGC CACCCCCGNC TCCACCACTT TCCACCATCA GCTGCCAAAC 60
TGGTCCCTCT GTCTCCCTGG GGCCTTGGGT TCTGTTTGGG GGTCATGACC TTCCTAGTTT 120
CCTGACGCAG GGGNATACAG GGGAGAGGGT TGTCCTTCCC CCCAGCAAAT GCAATAATGC 180
CCTCACCCCT CCTGAGAGGA GCCCCCTCCC TGTGGAGCCT GTNACCTTCG NATTTGACAC 240
GAGTCTGCTG TGAACCNCGC ANTCTGCTTC NCACCTNCNA TCTNTCCTNC CAGGGCCATN 300
CCTGGGCCAG AGCAGGAGGG GAGGGAGGTN 330

SEQ ID NO:5329

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06358

SEQUENCE DESCRIPTION:

GATCAAAAAT NTGTGGGTTT ATTTCTGGAG TCTCTGTTCT ATTGGTCTAT ATGTCCGTCT 60
TCATGCTGGT ACTATGCTGT TTTATTTACT GTAGCTTTGT AATATATTTN GAAATCAGAA 120
GGTGGGATGC CTTAGCTTT GTNCTTTTTN CTCAAAATAA AAAATNCTTT TGAAA 175

SEQ ID NO:5330

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06359

SEQUENCE DESCRIPTION:

GATCAATCA GAGTAATTG GATATTCATC ACCTCGAATA TTTATCTTTC CTTTGTGTTG 60
GGAACATTAT AATTTTCCTC TGCTAGCTAT TTTAGAATAT ATAATAAATN ATNGTCCCCT 120
AAA 123

SEQ ID NO:5331

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06360

SEQUENCE DESCRIPTION:

GATCAAAGCC AGCCACCCCC ACCCCAACAC ACTCGGTGTC CCTTTCATCC TGGGCCTNTG 60
TGAATCCCAG CCTNGGCCAT ANCCTCAACC TCAGTGGGCT GGAAATAACA GTGGGGNCCC 120
TGTAGCAGTG GCAGAATAAA CTTAGATGTT NTNACAGGAA A 161

SEQ ID NO:5332

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06361

SEQUENCE DESCRIPTION:

GATCNTCTCA GNGANGNCGC TTNGGTCGCA GTTTTAGGGG GTTCTCGGTT TGCAGGAACC 60
CTGGGTGCAG GTTCGCAGCC CTGTCAACCA GCTCCGAGCC GGCAGCGAAA CCTGAAGTGG 120
ACCCTGTGGA AAATNAAGN 139

SEQ ID NO:5333

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06362

SEQUENCE DESCRIPTION:

GATCTNCTCA CCCTCGGTGA NAACAGTGTC AGCCATGCAA GCAGGACAGA ATGGTGACTG 60
GGTGCCCTTG GTGAGCTGTG TATTCCTAG NAGGTAGAAA ACTGTGGGAA ACTGTGGCTA 120
ATAAAAACTA AGTGTGAGCG TCAAA 145

SEQ ID NO:5334

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06363

SEQUENCE DESCRIPTION:

GATCTTAAAT NACCTATTTT TAATGTGATT CATACACGTT TTTNACTTAG TGGTTTAAAA 60
TATGAAAGTA TATAAACACA TTACCAAACA CTTTGGGGTA GGAGAAGTAC GCTTAGCATG 120
TCTGTGTCAT ACCTAATTTT TTAAAGCTA TAATGAACTG ATACACATCA ATTTANNNG 180
NGGTTTTATT CTTTCAATGA AACTGTATC AAAATTTTTT NATGANGTAA TGTTAGTCTT 240
TGTGGTCAAT AGTTATTGGT AATACTACTA GTAATATGGG TNCATGGCTA TAAGATGCTT 300
TAGCTTAGTG GTCAGTTGTT ATNCTAAGGG GTTTNAATCN AATTNGGTNG N 351

SEQ ID NO:5335

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06364

SEQUENCE DESCRIPTION:

GATCACAAGT AGAGAACTTG TTTCTTTTCA CCCCTCTTGC TCCTCCCCGG AGTTATGAAA 60
AATTTCAAAC CTGCCAAAAG TTTGAAGTTT ACAACAAATA CCCTCCAACG TTTGGNTTGC 120
CTCCCTCCCC CTTCTCTCCC TTNCTCCCTC TGATTCTTA CAGAACCACG CTTTCATGAC 180
CATGCCCGGG AACTTCACGC TGGCGCGGTG AGGTCCTGCG CCTCCGNTN CNGCACACAC 240
GTGCTTCTNA ATAGCTGCAG GCTATTTTCAT GAGAGGAATT TGCTCACGTT AACATNGCTG 300
TTCCCAAATG CCAGGCTGNT TTTAAGTGGT TTCCTAATTT ATAAAGGN 348

SEQ ID NO:5336

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06365

SEQUENCE DESCRIPTION:

GATCTCAATA GTCAGTTACT GATGCTCCTG AACCTATGT GTCCATTNT GCACACACGT 60
ATACCTCGGC ATGGCCGCGT CACTGCTCTG ATTATGTGCC CTGGCCAGGG ACCAGCGCCC 120
TTGCACANGG GCATGGTTGA NTCTGAAACC CTCCTTCTGT GGCAACTNGT ACTGAAAATC 180
TGGTGCTCAN TAAAGANGCC CATGGCTGGT GGCATGCAAA 220

SEQ ID NO:5337

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06366

SEQUENCE DESCRIPTION:

GATCCCAGCC ATAAAGTACC TGGGATGAAA GAAGTTTTTT CCAGTTTGTC AGTGTCTGTN 60
AGAATTACTT ATTTCTTNC TATATTCTCA TAGCACGTGT NTGATTGGTT CATGCATGTA 120
GGTCTCTTAA CAATGATGGT GGGCCTCTGG AGTCCAGGGG CTGGCCGGTT GTTCTATGCA 180
GAGAAAGCAG TCAATAAATN TTTGCCAGAC TGGGTGCAGA ATTTAAA 227

SEQ ID NO:5338

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06367

SEQUENCE DESCRIPTION:

GATCTTNACT CTTGTTTCCT TTGTCCTTTT NTTCAGACAG AGTTGTACCT GCAGCAGACA 60
ACTCTGAATT AAAGCATGAA AACACAGCAA A 91

SEQ ID NO:5339

LENGTH:269

01606

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06369

SEQUENCE DESCRIPTION:

GATCTCTCCC CACACAGAGG CCAGCAGACC TCTTCCTGAG GACTTCTGTT TAAAGGAGGA 60
CGAGGAGGAG GTTGGTGACA GTCAGGCCTG GGAGGAGCCC ACAAACTGGA GCACAGAGAC 120
ATGGAACCTA GCTACTTCCT GGNAGGTGGG GCGGGNACTA CGGAGAAGGT GCAGCCAGGC 180
TGTGGCAAAG GGCCCCANTC ACAGCCTTGG CTGGGAAGGN GGGNNGACA GCTGANGGTC 240
GACTAAAACA AAGTCTGTTT TCATGNAAA 269

SEQ ID NO:5340

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06370

SEQUENCE DESCRIPTION:

GATCTCTTGT NATGGGGCCA ATAAGTCAAT TGAATTCATG GGCCAAACAG TTCCCATTCT 60
CTTCAA 67

SEQ ID NO:5341

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06371

SEQUENCE DESCRIPTION:

GATCCTNATN ACGNAGCTGA TGCCTGCCTT GGTNCCTACC ACTCTGGTGT AGACAGAGGA 60
CTTTNTCCAA GTGTCACACT AAACATGCCC GGGCTTCGAT GTGCCTGGAG GATTTCCTCA 120
CAGGGACCCA CGCACCTCCC TGTATCTGCG CAGTTGCTCG TGTGGCTGGA AGCGCTGTCG 180
ATAAGCTTCN NGGCGCTGGN TTGCCAGTTC TTCAGCTCTA GGAATTGTAG CTTAAGCAA 240
ACGGTGTGGC ATGGGNTTGA NGTNTGGCCA CCTGGCAGNG NTGTGCAGGG TCTTGCCTTA 300
NNAAAGCTGG CTN 313

SEQ ID NO:5342

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06372

SEQUENCE DESCRIPTION:

GATCAAAAAA TATATGAAAG TTCCTTGTAG ATACATATCT ATAGATATAT ATGTNTATGT 60
ATATAAAGAT AGATATATAC ATTGAAA 87

SEQ ID NO:5343

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06373

SEQUENCE DESCRIPTION:

GATCTTTTTA TATTCTTCTA CCACACCTGG AAACAGACCA ATAGACATNT TGGGGTTTTG 60
TAATGGGAAT NTNTATAAAG CATTACTCTT TTTNAATAAA TTGTTTTTNA ATTTAAAAAA 120
AGAAA 125

SEQ ID NO:5344

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06374

SEQUENCE DESCRIPTION:

GATCAGGTGG AAATGTTTAA GCTAAATAAA TCTAGGGGTT NTTTNAACAA A 51

SEQ ID NO:5345

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06376

SEQUENCE DESCRIPTION:

GATCTGAAGA AACAACGCAG TGTNCACGCA AGCCACTCAG ACAAGCCCAG GGGTTCCTTG 60
GCCTTCTCAG TCAGCTAACT TTCCTGAGTT CTCCTTTGAC TTCCTAGGG AACAGTTGAA 120
CAAGAGATTT TTCAATCAAG NCTTTGGAAC TACGAAGATG GAAGAGATTT GAAGAGGGAT 180
ATNGAATGAG TAAATTAAGC AACTTTTAN TATCCTATTT CTNTAAATNT CCAGATTTTA 240
AAACATTCTT GTATTATANT ATCTAAAAAC AAA 273

SEQ ID NO:5346

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06377

SEQUENCE DESCRIPTION:

GATCTAGATA TTTTCTCTT TTTCTGAAGN TACTTTCTTA AAAAATAAAT AAAATGTTTA 60
TAGCATTCTT NGTAAA 76

SEQ ID NO:5347

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06378

SEQUENCE DESCRIPTION:

GATCAATTCT CCTTTGCGAG GNGACCACCA ANGGACTGCA GAGCTGNCCG GGCATTCTGTG 60
CGTGTTTCATG ACCGAGAAGT TTNCACACAG AGAGGACTTC TGTCCTGACG AAGGAGCGCA 120
GAGCTGGCCG NGCATTCTGT CGTGTTTCATG ACCGNGAACT TTTCACAGCT AGGACTNCTG 180
TCCTGACGTC TTTATNGGTA TAATAGTTGC GTTAAAGNCT GCAGACTTCA AGTTTATATT 240

TCTCTTTATT GTAACACTCT GTGCANNNTT TGATTNCTAG TTTATTNCA TTGTN 295

SEQ ID NO:5348

LENGTH:416

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06379

SEQUENCE DESCRIPTION:

GATCGACCTG AGCACAGTGG ACCTGAAGAA GCTCCGAGTT AAAGAGCTGA AGAAGATTCT 60
GGATGACTNN NNGGAGACAT GCAAAGGCTG TGCAGAAAAG TCTGACTACA TCCGGAAGAT 120
AAATNAACTG ATNCCCTAAAT ATGNCCCCAA GGCAGCCAGT GCACGGACCG ATTTGTAGTC 180
TGCTCAATCT CTGTTGCACC TGAGGGGGTA AAAACAGTTC AACTGCTTAC TCCCAAANCA 240
GCCTNTTTGT AATTTATTTT TTAAGNGGGC TCCTGACAAT ACTGTATCAG ATGTGAAGCC 300
TGGAGCTTTC CTGGATGATG CTGGNCCTGC AGTACCCCCA TGAGGGGATT NCCNTTCCTT 360
CTGTTTGCTG GTGTACTNCT GGGGGNGNGA AGTGTGTCTG GGGNNTTTT TNNTGN 416

SEQ ID NO:5349

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06380

SEQUENCE DESCRIPTION:

GATCTGAAGA AGTGGTTAAG ACCAAGAGTT TATGTACCTT TTAAACAAA GATTAATAAA 60
TTTTGAAGA AGTGATGAGA CAAAGAAA 88

SEQ ID NO:5350

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06381

SEQUENCE DESCRIPTION:

GATCAGAACA TGAACTTTTT TTTTAAAGA AGATTGAGC ATTTTCCTGT AATCACATCA 60
AAATNATGTT TTCTGTGTAA AGCGAGATAC ATATTNCTNA TAATGCAGCA TTGTGAGAAG 120
TCAGTTCGGC CCACTGCACC ANCACTGTCG TATCCTTGTT AAAATGGTGT GTACCTTACA 180
ANTTATAATT TATGTGCCAG GTTCGTTTTG TNCTTAATTT GCTATTATTG TGCTGTGTNT 240
ANCCCTGTN NNCTNGGTN 259

SEQ ID NO:5351

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06382

SEQUENCE DESCRIPTION:

GATCTTATAA AGTACTTGTG TGGAGCTTTG ATTCCACAGA ATAAAAGATA TTTTGTGTGT 60
AGAAA 65

SEQ ID NO:5352

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06383

SEQUENCE DESCRIPTION:

GATCTCAGCC CAGGACAAGG TGGGAATNAG TCAAGCCTGG ACTCTGGCCC CCCTGCCTGG 60
CCAGTAAGAA GGGCAAAGTC CAAGGGGAGG GATGAGGNAG GGGCCAGATG GGGTCCTGGA 120
GGAAGAATTN CCTGGCAAAA GCCATTGGAG CTTGTNTGTG TGTCTTTGGT GATGACATNT 180
GTTGTGAGGG TAGATGGGAA CCATNTTAAA AGGATGAAAT GTGAAA 226

SEQ ID NO:5353

LENGTH:305

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06384

SEQUENCE DESCRIPTION:

GATCCTTTTG TAAGGNCCTT CCTGAAGAAG AAAGGTGGCA AATACAGTNT TCAGTTCAAG 60
TTGCCCCGACG TGTATGGTGT ATTCCAGTTT AAAGTGGATT ACAACCGGCT AGGCTACACA 120
CACCTGTACT CTTCCACTCA GGTATCCGTG CGGCCACTCC AGCACACGCA GTATGAGCGC 180
TTCATCCCCT CGGNC TACCC CTACTACGGC AGCGGCTTTC TNCATGATGC TGGGGGCTCT 240
TTCATCTNTC AGCATCGGGC NGGCTTTGCA CATGNAGGGA GAATGNTGGA NGTCCGANTT 300
TTNGN 305

SEQ ID NO:5354

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06385

SEQUENCE DESCRIPTION:

GATCTACATT CTTCAAAAAA AAAAATTGGC TTAAGTGTG CATCTTNAAG TAGCATTTTG 60
CTGCCATTTG TATTGGGCTG AAGAANTCAC TATTGTGTAT AACTCAAGT CTTTNNATTT 120
TCCCNCCTTT CATAAATNCT CTTGGNCATN ATTGGGCTTG CAGAGTTCCC TTATNCTGGG 180
GATTACAATG CTTTATCGT TTCAGGCTTC ATTTNNGCTT CAAANCAAGC TGGGCACACT 240
GTAAANCAAT GATTTTGCAG ANCCTTGGT TTTGGACAGT TTCATTTTTT NGGATTGGG 300
ATAGATTNCA TAGGAGTATG GAGTATGCTG TAAATAAAAA TNCANGCTAG TGCTTN 356

SEQ ID NO:5355

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06386

SEQUENCE DESCRIPTION:

GATCTTTAAC AGTCCTTTA CTTGCNCTTT GTAAAAAAA ATAAATTAG NTTGAATTAT 60

TCTACCTTTG TAAA

74

SEQ ID NO:5356

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06387

SEQUENCE DESCRIPTION:

GATCCTGCTG GCCGAGCTCG AGCAGCTCAA GGGCCAAGGC AAGTCGCGCC TGGAGCAGCA 60
GAATAAGNTC CTTAACTTAA AATAAATTAA TTTTTCAAA AAACATAAAT CTGGAAGTGT 120
TGTTTCTATA TTNATAACA AATACAGTAT ATNTNATNTA TAAGCCATGG TCTACTGATA 180
CTGTATGAGG ACTTNCCTGA N 201

SEQ ID NO:5357

LENGTH:409

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06388

SEQUENCE DESCRIPTION:

GATCAGAACG TTAACATATG AACCTGCAGA AATCTGGTAA GACTTAAATT CAGTGTGAGG 60
AATAACTCTA GTTCTCTCCT ATGAGCATTT CCTAAAAGCC ATCTGATTG GCATTCTTAC 120
TGGAGCTGCA GACAGAAATC TACAAAGNCN NAAGTAAACA AAATTAAGTT ATTATTCCAC 180
TGTTAGGAAT GGAAATAAAC TTGTGAAGTC TGTTTATTTT GAAGTATTGG TGAAGTAGGC 240
TTGCTAATNG GGAGCTGCAG CAGTTTGTGT TTAATCCAGT TCATCAGCTT AGGTCATTG 300
AAAGNTATAA GAGCTTAAGG CAAGAAAGGA ATACCATGGG ATTCTATTN AGGGCCACCA 360
GNCCATTCTT GGNAAGCAGC TCCNGTTTGG TTTTCCAGCT GTCAAACNTN 409

SEQ ID NO:5358

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06389

SEQUENCE DESCRIPTION:

GATCTGCCCC TNTCGGCCTC CCAAAGTGCT GGGATTACCG GCATGAGTCA CTGCGCCTGG 60
CCGACAAAGG CTTTGATATC AGAATGAACT GTCAAGGGAG GTGCTGGAGA GGGATTAACC 120
TGTGCAGAGN CCAANNGGTA TGGAANNAAA ANTGGGATTG GGACTAGGTG NTCTN 175

SEQ ID NO:5359

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06390

SEQUENCE DESCRIPTION:

GATCAGGCTC AGGCGGCCCC ACTCACCAC AGCATCCGCC GCCACCCCTT CGGGTGTGAG 60
CGCTCAATAA AAACAACACA CTATAAAGTG TTTTAAATC CAAA 104

01611

SEQ ID NO:5360
 LENGTH:106
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06392
 SEQUENCE DESCRIPTION:
 GATCTTTCCC AAGAGAAGGG GAAGCACTCG TGTGCAACAG ACAAGTGA CTATCTGTGT 60
 AGACTATTG CTTATTTAAT AAAGACGATT TGTCAGTTAT TTAA 106

SEQ ID NO:5361
 LENGTH:382
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06393
 SEQUENCE DESCRIPTION:
 GATCTACGCT GCCTTCAAGG AAGTGCTGGG TTCGGGCATG CACCACCACC TCCAGAACAA 60
 TGAGCTACTC CGTGACATCT TTGGCCTGGG CCCTGTGCTG TTGCTGGATG CCACTGCCCT 120
 GAAGGCCCTGC AAGGTTCCAC GCTTTGAGAA GCACCTGTAC AATGCTGCTG CCTTCAAAGC 180
 CCGGACCAAG GCTCGAAGCC GTGTGCGGGA CAAGCGGGCA GACATCCTGT GAAGCAGGAC 240
 CTGCTGAAGA GGAGACTTTC TATGCCCTTG GTCCGTATTT TTAACAGAAG ACAGTGCAAC 300
 AACTGGTCTT CACCAGTATT TGTCACTTA TTTTTTTTAA TGTCAAAACC AAAACAGAC 360
 ATGGGGTTGG GTAGCTGGGG GN 382

SEQ ID NO:5362
 LENGTH:354
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06394
 SEQUENCE DESCRIPTION:
 GATCCNATCA TTCCTTAAAC ATANTACCCT TNGTCTTGA GTAGAATACT AAGTTAGAGT 60
 TAGTGGATTT CTAGTTTAGG AGAGGAGCTC AAAACTATAA TCTNTAACAA ATTGAAAAAT 120
 GAAATAGGGT GTTTCCCTT TTTGTGCACA CCTACATNAC CTTAAGAAAT NNCCTTCCAT 180
 AGACAGCTGC CTCAAAGGGA AATCCTCTTT AAACCGTAGT TGGCGCAGAG GTCAGTCCTA 240
 GTCGGAGCTT AGGAGGTGCG GNGACGCTCA CATCGTCTGG ACTTGAGTCG NCACTGGATT 300
 GTGGCANCAN NTTTNGCTCA TGNGTCAAAA ATTTNGGCAA TTTCTTTTGG ATTN 354

SEQ ID NO:5363
 LENGTH:79
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06395
 SEQUENCE DESCRIPTION:
 GATCCAGGGC CTCCCCGCTT TCCTTCTTCC TTTTATATA CAATTGTGA TTGTCAAATA 60
 AAAGTAGGAA ATATTCAA 79

SEQ ID NO:5364

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06396

SEQUENCE DESCRIPTION:

GATCTTTGTG GCCAAGGAGC TGCTATAGCC TGGGGTGGGG TCATGCCCTC CTCTCCCATT 60
GTCCCTCTNC CCCATCCTCC AGCAGGGAAA ATGCAGCAGG GATGCCCTGG AGGTGGCTGA 120
GCCCTGTCT AGAGAGGGAG GCAAGCCCTG TTGACACAGG TCTTTCCTAA GGCTGCAAGG 180
TTTAGGCTGG TGGCCCAGGA CCATCATCCT ACTGTAATAA AGATGATTGT NAAATAAA 238

SEQ ID NO:5365

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06397

SEQUENCE DESCRIPTION:

GATCCTTGTC CGTGGCAACC TTAAACGTGT GCTGCAGTGC TGATGTATTT ATAGGCTTAG 60
CATGTCTGCT TTATTAGTTA TCCTGGAAAG AATGCTATTC AGTTTTTTTT TTAATGTCTA 120
CATCANGGAA TGAATGCTAA ATNAGCCCAT TTAGCAGCCT GAAATCAAAT NCTGCATTTN 180
TTTTTNNAAA CTCTGGTAG CAAAAGAAAA AGCTGATTAA ANTATGATTG TGTTACAATG 240
ACTAAAGGGT TANCTNCTCA TTAATTCTAA ATNCTTCAAA ATGNACAAGC ATCATAATAA 300
AGGCTTTTGA TGNGAANTAA A 321

SEQ ID NO:5366

LENGTH:409

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06398

SEQUENCE DESCRIPTION:

GATCTACAAG TCAGTGCCCT GTATGCTCTC CAGGTGCACT GCTATAACAG CAACTTCCCA 60
AAAGGCATGT TACTTCGCTT TTTTGTGCAC TTCTATGACA TGGAATTAT TGAAGAAGAA 120
GCTTCTTGG CTTGAAAAGA AGATATAACC CAAGAGTTTC CGGAAAAGG CAAGGCTTTG 180
TTCCAGGTGA ATCAGTGGGC TAACCTNGTT AGAACTGCN GAAGAAGAAG AATCAGAGGA 240
NGAAGCTGAC TAAAGAACCA GCCAAAGCCT TAAATTGTGC AAAACATACT GTTTGCTATG 300
ATGTAACTGC ATTTGACCTA ACCACTNGCG NAAANTNATT CCGNTGTAAT GTNTTCACAA 360
TATTTNAAAG CAGANGCACG TCAGTTTNGG NTTTCCTTCT GCANAAAGN 409

SEQ ID NO:5367

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06399

SEQUENCE DESCRIPTION:

GATCCTCAGT ATAGCCGGTG AACCTGATA CCAGGAGCCT GGGCCTCCCT GAACCCCTGG 60
CTTCCAGCCA TCTNATCGCC AGCNTCCTCC TGGACCTNTT GGCCCCCAGC CCCTTCCCNA 120
CACAGCCCNA GAAGNGTCCC AGAGCTGACC NCACTCCAGG ACCTAGGNCC AAGCCTTN 178

SEQ ID NO:5368

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06400

SEQUENCE DESCRIPTION:

GATCATTGTA ATATATTTAN TTGTATATNA AGCATGACTA CTTTAAGTNT TAAATAAACT 60
GCAATAATCC TTAAA 75

SEQ ID NO:5369

LENGTH:354

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06401

SEQUENCE DESCRIPTION:

GATCAGTGNC TGGCACCAGA CACTTCTGGG GATGGTACAG GGTGTGACAA CATGACCTGC 60
ATCATCATTT GCTTCAAGCC CCGAAACACA GCAGAGCTCC AGCCAGAGAG TGGCAAGCGA 120
AAACTAGAGG AGGTGCTCTC TACTGAGGGG GCTGAAGAAA ATGGCAACAG CGACAAGAAG 180
AAGAAGGCCA AGCGAGACTA GCAGTCATCC AGACCCCTGC CCACCTAGAC TGTTTTCTGA 240
GCCCTCCGGA CCTGAGACTG AGTTTTGGTC TTTTCCTTT AGCCTTAGCA GTGGGTATGA 300
GGTGTGCAGG GGGAGCTGGG TGGCTTCACT CCGGCCATTC CAAAGAGGGG TCTN 354

SEQ ID NO:5370

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06402

SEQUENCE DESCRIPTION:

GATCACTGGA ATGTGGGGAT TCTGAAACAG AAATGAAACT GTCCTTTTGA CAACTCTCTT 60
ATATAATAAA GTATCACCGG CTTGTGTATG AAA 93

SEQ ID NO:5371

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06403

SEQUENCE DESCRIPTION:

GATCATGCAT TATCTTTATA ATTCAAAAGA ATTTATATAT ATGTAAAGGA GGAGAAAATA 60
AAAAAAATTA TAATCTTAAA 80

SEQ ID NO:5372

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06404

SEQUENCE DESCRIPTION:

GATCATNTTG ATAATGCTCG GAATATTTTN AAATGTCCAT TCCGCTGTGT TGATTGAGGA 60
CGTTCCCTTC ACGGAGAAAG ATTTTAAGAA TGGCCCCCAG AACATATACA ACCTTTACGA 120
GCAAGTCAGC TACAACTGTT TCATCGCTGC AGGCCTTTAC CTCCTCCTCG GAGGCTTCTN 180
TTTCTGNCAA GTTCGGCTCA NTAAGNGCAA GGANTACATG GTGCGCTAGG GCCCCGNGN 240
GTTTCCCCGN TCCAGCCNCT TCTCTATTTA ANGACTGCNN GCACCGTGTC AN 292

SEQ ID NO:5373

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06405

SEQUENCE DESCRIPTION:

GATCCTNCTG GCCGAGCTCG AGCAGCTCAA GGGCCAAGGC AAGTCGNGCC TGGGGGACCT 60
CTACGAGGAG NAGATGCGGG ACTGCGCCGG NAGGTGGACC AGCTAACCAA CGACAAAGCC 120
CGCNTCGAGG TGGAGCGCGA CAACCTGGCC GAGGACATCA TGCGNCTCCG GGAGAAATTN 180
CAGGNNGGAG ATTN 194

SEQ ID NO:5374

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06407

SEQUENCE DESCRIPTION:

GATCCTGGAT TCACTCACTC ACTCATTCCT TCACTCATCC AGCCACCTAA AAACATTAC 60
TGACCATGTA AA 72

SEQ ID NO:5375

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06408

SEQUENCE DESCRIPTION:

GATCACGCAC GAAGTGTAAG AACTGACCCA GATTATCGCC GACGTGTCCC AGGACCCAC 60
GTTGCCGCGG ACCGAGGACC ACCCGTGCCA AAAGTGCGGC CACAAGGAGG CTGTGTTCTT 120
CCAGTNACAC AGTGCGCGGG NCGANGACGN CATGCGCCTT TACTACGTGT GNACAGCCCC 180
ACANTGNGGC CACCGCTGGA CCGAGTGNCC TNCTNTGTN 219

SEQ ID NO:5376

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06409

SEQUENCE DESCRIPTION:

GATCCAACAA GAACATTTCC AAAAGTATCT AGGTGTTCTC AAATAAAAAG CTTTCTTTGC 60
ACAAA 65

SEQ ID NO:5377

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06410

SEQUENCE DESCRIPTION:

GATCTGCTAA TGCTTTTCTAG GAGTCTGCCT GGAAACTTTG ACATGGTTCTN TGTTTTTACT 60
CAAAATCCAA TAAACAAGG TAGTTTGGCT GTGCAAA 97

SEQ ID NO:5378

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06411

SEQUENCE DESCRIPTION:

GATCCCAGAG AGCANCTTCA GTGACAAACA TATCCTTTCA AGACAGAAAG AGACAGGAGA 60
CATGAGTCTT TGCCGGAGGA AAAGCAGCTC AAGAACACAT GTGCANTCAC TGGTGTCCACC 120
CTGGAATAGG CAAGGNATAA CTCTTCTAAC ACAAATAAG TGTTTTATGT TTGGAATAAA 180
GTCANCCTTG TTTCTACTGT TTAAA 206

SEQ ID NO:5379

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06412

SEQUENCE DESCRIPTION:

GATCACTTAA ATGATTTTNT GGTGATTCGT GCCATTGCTT TTTTATTTAA AAGAAAATTT 60
TGTAATTAAA TGCCTTTTTC TAAA 84

SEQ ID NO:5380

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06413

SEQUENCE DESCRIPTION:

GATCACACCA GAGTACATGT CTCTGCCTCT NTTTTAGTG TGGCTTTGGA CAGGAATATA 60
TGAATAANTC ACTGCCATAC AGGTTTCCA ATACACAAGT GCTAGAAAAT ACACACAATT 120
CCCCAAA 127

SEQ ID NO:5381

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06414

SEQUENCE DESCRIPTION:

GATCAAAAAT GCAACTGAGA AAATNATGGC TCTTGTTGCT GAGCTGTCCA TGAAACAAGC 60
CCTAACCATT GAACTCCAAA AGGAAGTCAG GGAGAAAGAA GACTTCATCT TCACTTGCAA 120
TTCCAGGATA GAAAAAGGTC TGCCACTCAA TAAGGAAATT GAGAAAGANT GGTTGAAAGT 180
CCTTCGAGAT GAAGAAATGC ACGCCTTGGC CATCGCTGAA AAGTCTCAN 229

SEQ ID NO:5382

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06415

SEQUENCE DESCRIPTION:

GATCCCTAAC TGTTCCCTTA TCTGTTTTCT ACCTCCTCCT TTGTTTAATA AAGGCTGAAG 60
CTTTTTGTAA A 71

SEQ ID NO:5383

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06416

SEQUENCE DESCRIPTION:

GATCACTTAC AAATTTTTTG AATAACACAA AATCTCATTC TACCTGCAGT TTAATTGGAA 60
AGATGTGTGT GTGAGAGTAT GTATGTGTGT GTGTGTGTGT GTGTGTGTGC GCGTGCACGC 120
ACGTCTTGAG CAGTCAGCAT TGCACCTNCT NTGGAGAAGG GTATTCCTTT ATNAAAATCT 180
TCCTCATNNN NGNTTGTCTT TCAGTTGGTT TTCAATTNC TCACTGGCCA GAGAN 235

SEQ ID NO:5384

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06417

SEQUENCE DESCRIPTION:

GATCTTCCCT CTTCTGAACA GCAACTCCCC CCAACTCATA CACTGCCGTT TTCAGGGTAA 60
GCGGCCTTCA CCCCTAAGTG AAAATGTTAG TGAATAAAG GAAGGAGCCA TTCTTGAAC 120
TGGACGACTT CTGAAAAGTG GAGGACGAGC ATGGGAGCAA GGCCAGGACC ATGACAAGGA 180
AAATCAGCAC TTTCCTTGG TGGAGAGCTA GGCCCTGCAT GGCCCCAGCA ATGCAN 236

SEQ ID NO:5385

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06418

SEQUENCE DESCRIPTION:

GATCCAGTAC TTGGCAGCCA TAGTTTAGAC AATATTGTTC AGTGCTGTGT TGCTNNCATG 60
TTAACAACAA AACCTTTTAG AGGNCCCACA AATCATNGGT ATNGGACACA GGTCCGAGGN 120
ATTCCAGAGC ATCAN 135

SEQ ID NO:5386

LENGTH:261

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06419

SEQUENCE DESCRIPTION:

GATCAGCTCG CACAGAGGTT GTCTGCAAGC AGTGTGAAGC TCATCTAGGT CACGTGTTTC 60
CTGATGGACC TGGGCCCAAT GGTCAGAGGT TTTGCATGAA CAGTGTGGCT TTGAAGTTCA 120
ANTCAAGGGA AACTGACCA TCTTCAAGAG TCCCGTTCCC TTGCCACCCC TTCACGTGCA 180
CCCTCAATTT CCACAATTCA CTTGAATGAC TTGTNTTATT NGCAATAAAA CTGGGCTGAA 240
TTTGCTGCTG TCTCCAAANA N 261

SEQ ID NO:5387

LENGTH:300

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06420

SEQUENCE DESCRIPTION:

GATCATAGAC ATGATTATAT GTGAGTATCA TTAATCATTG GTTTATAGCA NTTNCTCTTT 60
ATTCCAATAT TATAATAATC CNCACTCTAC AATCATAACC TAGGAAAAAC CAGGCCATAC 120
AGAGATAGGA GCCGAGGGGN CATAGTGCAG AGTGGCCAGA AGACAAGAGT GTGAGCCTTC 180
TCTTATGCCT GGACAGGGCC ACCAGAGGGC TTGGTCTAGC AGTAACACCA GTGTCTGGGA 240
AGATGCCTGT TGCAAAGTGG ACCATGGTCT AGCGGGGGGC ATCAGTGTCA NGGTANNGAN 300

SEQ ID NO:5388

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06421

SEQUENCE DESCRIPTION:

GATCAACAGT GGCAATGGAG CTGTGGAGGA CAGAAAGCCA AGTGGACTCA ACGGAGAGGC 60
CAGCAAGTCT CAGGAAATGG TGCATTTGGT GAACAAGGAG TCGTCAGAAA CTCCAGACCA 120
GTTTATGNCA GCTGATGAGA CAAGGAACCT GCAGAATGTG GACATGAAGA TTGGGGTGTA 180
ACACCTACAC CATTATCTTG GAAAGAAACA ACCGTTGGAA ACATAACCAT TACAGGGAGC 240
TGGGACACTT AACAGATGCA ATGTGCTACT GATTGTTTCA TTGCGGAATC TTTTTTGAN 299

SEQ ID NO:5389

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06422

SEQUENCE DESCRIPTION:

GATCCACCTG CCTCGGCCTC CCAAGGTGCT GGGATTGCAG GTGTGAGCCA CTGTGCTCGG 60
CCTTATTTAT ATTTTATATA TTGTTGATAT GGTGAATTT ATGTATGCCA TTAAATTATT 120
TGTTTCTATT TAAA 134

SEQ ID NO:5390

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06423

SEQUENCE DESCRIPTION:

GATCAACGTC CTCCATGAGC ATGGNATAGT CCACCGTGAC ATTAAAGGTG CCAATATCTT 60
CCTTACCTCA TCTGGTTTAA TCAAAGTGGG AGATTTTGGA TGTTCAAGTAA AGCTCAAAAA 120
CAATGCCCAG ACCATGCCGTG GTGAAGTGAA CAGCACCCTG GGGACAGCAG CATACTGGC 180
ACCTGAAGTC ATCACTCGTG CCAANGGAGA GGGCCATGGG CGTGCGGCCG ACATCTGGAG 240
TCTNTGGGTG TGTTGTCATA GAGATNGTGA CTTGGCANGA GGCCTTGGCA TGAGTATGAG 300
NAN 303

SEQ ID NO:5391

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06424

SEQUENCE DESCRIPTION:

GATCCAGAAG AAGTGACCTG AAGTTTCTGT GCAAACTNC AACTAGGCA ATGCCATTTC 60
AATGCATTAC TAAATNACAT TTGTAGTCC TAGCTCCTCT TAGGAAAACA GTTCTTGTGG 120
CCTTCTATTA AATAGTTTGC ACTTAAA 147

SEQ ID NO:5392

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06425

SEQUENCE DESCRIPTION:

GATCAATTCG ACAGACAGAT GGNGTGTATG CCCCTCCCAN GTTTGACTTC ACACAACTC 60
ATAACTTTCC AAATGAAGCC CCACAGTATA GCGCATATTT TNGATATTTT TGTGAATNCC 120
ANNAGGAN 128

SEQ ID NO:5393

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06426

SEQUENCE DESCRIPTION:

GATCCCTAGG AGCTGNCCTN CTTCCAGCCA NTGCCAGGAA CCAGCACTCC ATGAAGATAA 60
ACTCTGGGCC CGACCACCAG CAGGNCCTGA CGACCTGAGG TGACCCTNGG CCTTTCCCCC 120
NN 122

SEQ ID NO:5394

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06427

SEQUENCE DESCRIPTION:

GATCACAAAT TTTGATATGT GCTATACAGG AAATAAAGTG TTATGATTGA GAATAAA 57

SEQ ID NO:5395

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06428

SEQUENCE DESCRIPTION:

GATCTGAAAT CTTCAGTAGG TTGATGTGGT TTCCTCTGCA GTGATTTTCC TAGGAAGTTC 60
AAATTTGACA GCGAGTTCAG CTCAGCTGTG GCCCTCTGCC CTTCCAGCTG TGCCTAGCAA 120
GCAAAACCCA GGNAAGAAGC AGTNGCCTCC TGGCCTTACA TACAGAATGC CTGGACAAGA 180
GAGAACTTGC TGCGGCTGC TTTGTATTTT AAAACACAGC TTGNGAGTTC AGAGTTGGTG 240
GTTTGCTCAC TTAGCGGTTG TTANGNTGGC TTGAAAAGTT TTCATTATGA TACTCTGGGT 300
ACCTGCGGCT TNGAATGTTN NCAACTTNGG NNNATCTNAT GGTACCTNT GATTANNAN 359

SEQ ID NO:5396

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06429

SEQUENCE DESCRIPTION:

GATCTACCCA CCTCAGCCTC CCAAAGTGCT GGGATTACAG GCATGAGTCA CCACGCCCGG 60
CCCTGNTTAT CAATCTTCAA TATTTTGTAT TTTGAGCACT TTGTTGGATT TGTATTATAG 120
CACATGTATA CATTGTTTTA TTATAATATT GTGTGTAATT TATTTCTGAT TAATTTTATA 180
TCCTTCCTTC ACATTTCAAA TACTTCTAAT TAAAAGCAGA CTGTTCAAAA AANNNNNGNN 240
NGNNNN 246

SEQ ID NO:5397

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06430

SEQUENCE DESCRIPTION:

GATCTGGCTG AGGGCTCAGG ACACAGGCCC AGCCACCCCC AGGGGCCTCC ACAGNCCGCT 60
GCATGACAGC NATACAGTAC TTAAGTGTCT GTNTAGACAA CCAAAGANTA AATGATTCAT 120
GGTTTTTTTT AAA 133

SEQ ID NO:5398

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06431

SEQUENCE DESCRIPTION:

GATCCTGAAC CAAATTTATA GCAATATAAT TAGTGTTTNT CTAAGGCATT ACTCATCAA 60
AAAATTGCTG CAGTCTTTAC AGTTGAATAA ATAAAAACAA CTGCATAAAT ATGCCCAA 119

SEQ ID NO:5399

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06432

SEQUENCE DESCRIPTION:

GATCACCACC TGTAGAACT GTTCTTCCTC TGTGAACTA ACGGCCTGCT GGTAATAAAA 60
GTAGCTACCA TTTCTTGAAA 80

SEQ ID NO:5400

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06433

SEQUENCE DESCRIPTION:

GATCACTCAT TGCTAATTTT GTCCTGTACA GCTTATGTAA TATTTNNATG GTGGAGACGG 60
ACTCTGTGTG CTCAGGGCCT TGTCTCTAGG AAGATTTTGT CAATCCAAA TACAGTTTGT 120
AAGATTCAAA 130

SEQ ID NO:5401

LENGTH:379

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06434

SEQUENCE DESCRIPTION:

GATCAACTGA TAAGTTGCCT TATGTCACCA TGGGTTCTGG CTCCTTGGCA GCAATGGCTG 60
TATTAAAGA TAAGTTTAGG CCAGACATGG AGGAGGAGGA AGCCAAGAAT CTGGTGAGCG 120
AANCATCGCA GCTGGCATCT TCAACGACCT GGGCTCCGGA AGCAACATTG ACCTCTGCGT 180
CATCAGCAAG AACAAGCTGG ATTTTCTCCG NCCATACACA GTGCCCAACA AGAAGGGGAC 240
CAGGCTTGGC CGGTACAGGT TGTGAGAAAG GGGACTACTG CAGTCCTCAC TGTGAAANTN 300
ACTCCTCTNG AGATTTGAGG TTNTTGAAG AACANGTCC AAACAATGGA CCACTTCCTG 360
AATTGGCATC ANTGGTNNN 379

SEQ ID NO:5402

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06435

SEQUENCE DESCRIPTION:

GATCTGTAGT AAACAATGGT GATTTTATTT ATTTTNACTC TCTGGAAAAG GAGATAATAC 60
AATTCAGAA AGTGAAC TCA TATTTCTAAG GTTAAGATTC CCTTTTATTG CACCTAGAAT 120
AGTGCTATGC ACAGAGCGGG TGCTTGAGTT GTTGTCTGTT TNTGTTTGTT TTTTAAATGT 180
AAACTGGTAA ATNTTGTGCT TATCTTCAAG GCTAGCTTAN GTATAAAATN GTTTTTTAAA 240
CACTTGNAAT ATTAAGGAT TTGTTTAAAN NANCANNAG GGGNGGTGGT TNGGTNN 297

SEQ ID NO:5403

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06436

SEQUENCE DESCRIPTION:

GATCAAATAG TTGCATAGCA GTATATGTNA ATTTGTGTGT TTTTAGCTGT GACACAGCTG 60
TGTGATATAA AGGTATACTT TAGTAGACAT TTATAACTCA AGGATACCTT CTNATTTAAT 120
CTNTTCTTAT TTTTGTACTT TATCATGAAT GCTTTTAGTG TGTGCATAAT AGCTACAGTG 180
CATAGTTGTA GACATGGTAC ATTCCTGGGA AACAACATTT NTNTGTNGCC TTTACTGTTT 240
GATATACCAN ATNANAANAA AATTGGGTCT NATTNCTNAT GCTGGGGCAC CNTN 294

SEQ ID NO:5404

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06437

SEQUENCE DESCRIPTION:

GATCCTCACC NCTTGGAATT AAAATNCTTG TCACTCAGG CAAGCCTACA GTTTGCAACC 60
AAGTCTAGGG TTTCTGTAA TCAANGNCGT TTTTCANTT AAA 103

SEQ ID NO:5405

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06438

SEQUENCE DESCRIPTION:

GATCTGCTGG ACATCATGCC CCATGTCATA GAGAATAAAG CTGATGATTG TACCAGTAAA 60

SEQ ID NO:5406

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06439

SEQUENCE DESCRIPTION:

GATCATACCN ATAAAAATAA TNCCAAACAC CAAATATGAA TTTTATGAAT GTACACTTTG 60
TGCTTNACAT TAAAAGAAAN AAACACACAA A 91

SEQ ID NO:5407

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06440

SEQUENCE DESCRIPTION:

GATCGTCGCC TGCTGGCTAA GACCAGGGAG CTAAAAACTT NAGGAAGGGA ACCTGCCTGG 60
TTGGNTGCTA CTTCTGATTC ATTGTCCTTN TCCCTNTCAT AAGTNCCN 108

SEQ ID NO:5408

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06441

SEQUENCE DESCRIPTION:

GATCTTATGT TTAAAGAGAT TCTGTTATTA GCACCATGAA CTCGTAATAT GAAATNTTTA 60
AGCCTTTTAT TTTTCTAACT ATATTACTGT AGGACTGGAT ATTAGGTGTC ATATAGGAAA 120
CACAAAAGTT ATTGCTGTTT GCTAAAGCAA AGTAGCAGAA AATTTTGTAT ATGCAAAACT 180
GTTGAAGGNC CATAGAGAAA TGTGTACTAC TGACGGGGCT TTTACTAGGC TTCCTGCGTG 240
TGTANAAGTC GAGGTTTTGG CTTGGCATTG AGGGTGACAT GGTGGTGCTA AATTGTTTTC 300
CNTTTAAAAG GCNTTCTATT N 321

SEQ ID NO:5409

LENGTH:390

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06442

SEQUENCE DESCRIPTION:

GATCCGCAGC AGAAGCTCTT CCCTTCTGTA TCCTATGTAT GCAGTGTGCT TTNCTTGCC 60
AGCTTGGGGC ATTCTTGCTT AGACAGTCAG CATTGTGCTC CNCCTTTAAC TGAGTCATCA 120
TCTTAGTCCA ACTAATGCAG TCGATACAAT GCGTAGATAG AAGAAGCCCC ACGGGAGCCA 180
GGATGGGACT GGTCGTGGTT TGTGCTTTTC TCCAAGTCAG CACCCAAAGG TCANTGCACA 240
GAGACNCCGN GTGGGTGAGC GCTNGCTTCT CAAACGGNCG AAGTTGCCTC TTTTAGGNAT 300
CTCTTTTGGA ATTTGGGAGC ACGATGNCTC TNGAGTTGA GCTATTAAAG NACTNCTTGG 360
CACATTAANA AAANANAAAT GNGGTNNGNN 390

SEQ ID NO:5410

LENGTH:197

TYPE:nucleic acid

01623

TOPOLOGY:linear

CLONE:HUMGS06443

SEQUENCE DESCRIPTION:

GATCCCAGGG AAATATCAGC CTTGGGCAAC TGCAGTGACC AGGGGCACCG GCTGCCCACA 60
GGGAACACAT TCCTTTGCTG GGGTTCAGCG CCTCTNCTGG GGCTGGAAGT GCCAAAGCCT 120
GGGGCAAAGC TGTTTTTCAG CCACACTGAA CCCAATTACA CACAGCGGGA GAACGCAGTA 180
AACAGCTTTC CCACAAA 197

SEQ ID NO:5411

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06444

SEQUENCE DESCRIPTION:

GATCTTCAAG TGAACATCTC TTGCCCTGAT TGAAGGCTTT GCCACATGCT GGAAGGCCCC 60
CTCCCAGGAA GATGGGGGTC ATTAAAGGAA ACTNAACATT GAAA 104

SEQ ID NO:5412

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06445

SEQUENCE DESCRIPTION:

GATCACCTGA ACAATCTAGA TGTGGACAAA ACCATTGGGA CCTAGTTTAT TATTTGGTTA 60
TTGATAAAGC AAAGCTAACT GTGTGTTTAG AAGGCACTGT AACTGGTAGC TAGTTCTTGA 120
TTCAATAGAA AAATGCAGCA AACTTTTAAT AACAGTCTCT CTACATGACT TAAGGAACTT 180
ATCTATGGAT ATTAGTAACA TTTTCTACC NNGNNGTCCG TAATAAACCA TACTTGCTCG 240
TAAA 244

SEQ ID NO:5413

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06446

SEQUENCE DESCRIPTION:

GATCTNAGAA AANGCACCAC GTNAGCTTAC TAANTNATAA TATCTGTTTC TACTACGGAT 60
TTAGGCAACA GGACCTGTAC ATTGTCACAT TGCATTATTT TTCTCAAGC GTTAATAAAA 120
GTTTAAATA AATGGCAAA 139

SEQ ID NO:5414

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06447

SEQUENCE DESCRIPTION:

GATCGGGGTC CATGGGCCCA CCACCCCCTG CAAGGAGGTC TCCATGAAGC ATGTAGGCAA 60
 CCAGCAATAC AACGTCACAT ACGTCGTCAA GGAGAGGGGC GATTATNTNC TGGCTGTGAA 120
 GTGGGGGGAG GAACACATAC CTGGCAGCCC TTTTCATGTC ACAGTGCCTT AAAACAGTTT 180
 TCTCAAATCC TGGAAA 196

SEQ ID NO:5415

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06448

SEQUENCE DESCRIPTION:

GATCCATTAA TCTGCTAATT GGTTCCTAT GAAATCACAT TGTCTGTTAT TAAAGCTTTT 60
 TACCATAAA 69

SEQ ID NO:5416

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06449

SEQUENCE DESCRIPTION:

GATCTAGTAA AGTGTTTTAG AACCCCTTTT TATCCCATGC ACCATTCACT AAACATAAAA 60
 ATCACAATTC TGCTAATGTC ATTTGGAAT TCAAAATAAA TATCTTGTCT AAAAACAAA 119

SEQ ID NO:5417

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06450

SEQUENCE DESCRIPTION:

GATCATTGCA TGAATAGAAT CAAGGAGCTC ACTCAGAGTG AACTTNAATT ATNACTTTNN 60
 AGGCTCATTT GTACTCTCTT CCCCTCTCAT CGTCATGGTC AGGCTCTGAT ACCTGCTTTN 120
 AAAATGGAGC TAGAATGCTT GCTGGATTGA AAGGGAGTGC CTATCTATAT TTAGCAAGAG 180
 AACTATTAC CAAAGATTGT NGGTTAGGCC AGATTGACAC CTATTTNTNG NCNNTATGCG 240
 TATATTTNCC TGTGCTATAT ATGAAAANTA ATTGCATGAT TTCTCATTCC TGNGTCATTT 300
 CTCAGNGN 308

SEQ ID NO:5418

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06451

SEQUENCE DESCRIPTION:

GATCTGAAGG GAGAAGGTGA TATTCATGAA AATGTGGACA CAGACTTGCC AGGCAGCCTG 60
 GGCAGAGTG AAGAGAAGCC CGTGCCTGCT GCGNCTGTGC CCAGCCCGGT GGCCCCGGCC 120
 CCAGTGCCAT CCAGAAGAAA TCCCCTGGC GGCAAGTCCA GCCTCGTNTT GGTTTAGCTC 180

TGACTGTCCT GAACGCTGTC GTTCTGTCTG TTTCTCCAT GCTTGTGAAC TGCACAACCT 240
GAGCCTGACT GTACATNTTT TGGATTTGTT TCATTANAAA GAAGCACTTT AAA 293

SEQ ID NO:5419

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06452

SEQUENCE DESCRIPTION:

GATCCTGGNA CATTTCATAA GCTTGGGTAA AAAAATTTT TGTTATNNTC CATGCACAAT 60
AAGGGAAATG TTTTAATTGG CTTTGNGCCT CCTGCTTTAC AACAGTTCTG GCCTCAAGTT 120
ACCAGGTAGC CTGAACTTG NTTTTATTT ACCATTAANT TGCTTTAATA CCATNGTAAA 180

SEQ ID NO:5420

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06453

SEQUENCE DESCRIPTION:

GATCACTGA GCCCANGTTG AGGTTGAGGC TGCAGTGAAC TATNATTGTA CCACTGCACT 60
TCAGCCTGGG CAACAAAGGA AGACCCCACT TCTGGGAAA 99

SEQ ID NO:5421

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06454

SEQUENCE DESCRIPTION:

GATCCCTGCA TTNCCTGAAG ATNTTTAAAC GTGAGAGTNT GGTAGGCAAA GCAGTCTGAG 60
AAAGAAATAG GAAATGCAGA AATAGGTTTT TTTTGGTTGC ATATAATCTT TGCNCTTTTT 120
AAGCTCTGTG AGCTCTGAAA TATATTTTNG GNTTACTTCA GTGTGTTTGA CAAGACAGCT 180
TGATATTNCT NTCAAACAAA TGACTIONGN 209

SEQ ID NO:5422

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06455

SEQUENCE DESCRIPTION:

GATCCAGTGG AAAAAAGAGG GGAAACTATG GGAGTTCCCA ATTAACAATG AAGCAGGTTT 60
TGATGATGAT GGTTCAGANT TTCATGAACA TATATTNTG GAGAAACACC TGGAGAGCTT 120
TCCAAAACAA GGACCAATTC GCCACTTCAT GGAGCTGGTG ACTTGTGGCC TTTCCAAAAN 180
CCCATATCTT AGTGTTAAAC AGNNGGTTGA NCACATNGAG TGGTTTAGAN ATNTTTTNA 240
TGNNAN 246

SEQ ID NO:5423
LENGTH:105
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06456
SEQUENCE DESCRIPTION:
GATCTGCTCA GAAAGGAAGA GGCAGGCGCC AGGGNGAACC CCCTTCCGTG NTTTGTAACC 60
CTCCCTNTAA GGTGAAGCCC TTTNCTTGC TAAAACCGGN AATTN 105

SEQ ID NO:5424
LENGTH:159
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06457
SEQUENCE DESCRIPTION:
GATCCTGGGG GTCGTGGCTA CCCCCTCCTC GTGGCCGNNC TCCTTGCTGC TCCTGTCAAT 60
AGTGAGCTTG TGCCGTCCCN CTAGGATGGG GGCATGGCCN TGGGCTGCCA GATGCCCACA 120
GCACCCTGGC ATGACCTNCC ACCTNGGGTT CCANACCGN 159

SEQ ID NO:5425
LENGTH:211
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06458
SEQUENCE DESCRIPTION:
GATCACCTAT CCCCTGTTTC AACAATGAAT AAGGAACAGC AAATNTTTGA GACGTGCCCT 60
GAAACTGAAC AGAGATGCAC TCTCCAGTGA CTCCCCAGCA AACACAAGGT GCAGCAGGGT 120
CCCAAAGGTA GCTGGNTGGC TGANCTGCTG GNTATGGGAG ATACATGACG CGAAGACGGN 180
TTTNACATCC ACAGGGCGGT NTTNANGAAA N 211

SEQ ID NO:5426
LENGTH:66
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06459
SEQUENCE DESCRIPTION:
GATCCACCAC AGGGTTAGGG GACAGGAAGC CTGTTCTATT CTCAATAAAT CTTACAAAAT 60
TCCAAA 66

SEQ ID NO:5427
LENGTH:189
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06460
SEQUENCE DESCRIPTION:

GATCATTATT TCCATTCTTA ATGTGAAAAA AAGTAATTAT TTATACTTAT TATAAAAAGT 60
 ATTTGAAATT TGCACATTTA ATTGTCCCTA ATAGAAAGCC ACCTATTCTT TGTTGGATT 120
 CTTCAAGTTT TTCTAAATAA ATGTAACCTT TCACAAGAGT CAACATTAAA AAATAAATTA 180
 TTTAAGAAA 189

SEQ ID NO:5428

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06461

SEQUENCE DESCRIPTION:

GATCTAGACA TGCCTTAGGT AACTGCAGAA ATAGCAAATT AAATNATTAA TGAGCTTATT 60
 AGTCATAGTA AACATACAGA TTCCTANTTC TATGACAGTG TACATNTATG ANAATAAATG 120
 ATGAAAAAAG AACTATAGTA TTTTAAAAA TATGCTTTTA TTTNTATTNC ACATAGTGNA 180
 AAGTTCTACA NAN 193

SEQ ID NO:5429

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06462

SEQUENCE DESCRIPTION:

GATCACATTT CTGGGAAGAT GAGANCTNNT TTCCAGACCA GCATCCAGTG GCCATCAGGT 60
 CTTGTGGCCC AAAGGCTATG CTTGCCTCCG GCTGAGTGCC TGGNATAGGC CTTTNCATG 120
 TCTCCCAAG GCTGGGGTGC TGAGCCTGCC TTCCTACCA CCTAGCCATA GTCTCAAACC 180
 TGTGGGAAG GNGGNNTTCT CCCTGCCCGG GAAGAGGACA GATAACTGAT TTCCGTTCTT 240
 TTGACTGTGT TTTAAATTC TCTTTCTAAA 270

SEQ ID NO:5430

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06463

SEQUENCE DESCRIPTION:

GATCTCCTGG GACTCCGAGC AAGGCCTGCA CGAGAGAGGG CTGAAAGGCT GCTGGGGCTG 60
 CCACCTCGCT ATCCCCGCAT AAGCATCTGC CCCCACCCC TTTGACCTTC ATCTGATGGA 120
 CATTTTATA CAGAAAACAA TAAAGATTTC CCTCTCAGCA AA 162

SEQ ID NO:5431

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06464

SEQUENCE DESCRIPTION:

GATCAGTTGT ACTAGAGGAA CATCATAGAA GAGAAAAATC CAACTCTTTA TATTAATAAT 60

NAATACAATA AGAAAATTGC AAA

83

SEQ ID NO:5432

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06465

SEQUENCE DESCRIPTION:

GATCTGCAAG CCCTGCTGTA CAAGAAAATC ATTAAGGAAC ATTTGGAGAG TTAGCTACTA 60
GCTGCCTAAG TGTGCACTTT CAATCTAACT GTGAAAGAAT CTTCTGATGT TTGTATTATC 120
CTNCTTATAT TATATTANCA AAATAAATCA AGTTGTGGTA TAGTCAAA 168

SEQ ID NO:5433

LENGTH:357

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06466

SEQUENCE DESCRIPTION:

GATCCACCCA CCTTGGCCTC CCAAGGTGCT GGGATTGCAT GCATGAGCCA CTGCACCCAG 60
CCAAGATACA TTGTTGACGT GAAAAAAAAA TTTCAAGATA TATAGAACAG TGTAACATG 120
CATCCAATTG TGTTTTTCAN GGAGAAAATA ATGTATACTT GTATTGGTTT ACGTATGAAA 180
CAAAANTATC TAGAAGGATG AATAAAAAATC TAGTAACTGA TTNTACACTA GGGCAAATTG 240
GAAACAANTG GGNGACTTCA TGGATGACTT TTTTATATTT GTAAAGTGGA NGTGANTGTN 300
TTACTTATTC CACCAGTTAN GTTGAAACCT TTNNNNGGNA GGTTNGTGGT GNTTNTN 357

SEQ ID NO:5434

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06468

SEQUENCE DESCRIPTION:

GATCAGATGG CTTAGAGAAA TTNCTGGAAT ATTCACATTC GAAGATTCCT TATTAATNAA 60
TGTCTTTNAC TTAAATCTAA CCAAAAACTG CAACATTATT CTTTGTACAT TTNCATTATA 120
TAGTGTTAAC AAGCTTAGTT GCANACAANT AAAATACTTA AGCTATTTGT TAAA 175

SEQ ID NO:5435

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06469

SEQUENCE DESCRIPTION:

GATCTGGTGA AACTNGCTAA ACGNCTCAAG AAGGAGAAAG TTAATNTTGA CATTATCAAT 60
TTTNGGGAAG AGGAGGTGAA CNCAGAAAAG CTGACAGCCT TTGTAAACAC GTTGAATGGC 120
AAANATGGAA CCGGTTCTCA TCTGGTGACA GTGCCTCCTG GGCCAGTTT GGCTGATGCT 180
NTCATCAGTN CTCCGATTTT GGCTGGTGAA GGTGGNNN 218

01629

SEQ ID NO:5436

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06470

SEQUENCE DESCRIPTION:

GATCACAGTG GGCAGCCGGC ACCCNGCACC ACTTTGGCGA GCGTCCTGCT TCCGNCCTCG 60
CCCTCATCTA CGCTGCTCCG CTTTCCTCAG ACCCCTTTTT GCCGTGCAA GGAATTCTT 120
GACATTAAAT AAAAGGTATC CAGNTTGCAG AAA 153

SEQ ID NO:5437

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06471

SEQUENCE DESCRIPTION:

GATCAGTTGG GTGCACGAGT GGGTTACATC GAACTGGATT ATAGGAAGCT TATAACAAGA 60
ATGGAAGATT CTAAATAAC TCACTTCTT TGGNATCCAG TAACAGTAGA TGTTCAAAAT 120
ATGTAGCTGA TTAATACCAG CATTGTGAAC GCTGTACAGC CTTGTGGTTA TTAATAAGCA 180
AGTTACTACT AGCTTCTGAA AAGTAGCTTC ANAATTAATG GTTATTNTA NACTGCCCTT 240
CCNTGGCTGN TACTTNNCCC TAAGNTNAAT CTNCGAGAAT CTGAAATGNT TNCTNCANTT 300
NTCAGGGAGN 310

SEQ ID NO:5438

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06472

SEQUENCE DESCRIPTION:

GATCACATTN GATNAAAGAG CAAACTTGT TAAGTCCAAA ATAAATTCTT ACTGTTTATA 60
TCCTAAA 67

SEQ ID NO:5439

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06473

SEQUENCE DESCRIPTION:

GATCCACAGA AGGTCTGGT GGTATTTGTA ACTTTTTCGA AGGCATTTTT TTATATATAT 60
TTTTGTGCAC ATTTTTTTTT ACGNTTCTTT AGAAAACAAA TGTATTTCAA ANGTATATTG 120
ATAGTCGANC AATTCATATA TTTGAGGTGG AGCCATATGA ATGTCAGTAG TTTATACTTC 180
TCTATTATCT CAAACTACTG GCAATTTGTA AAGCNATATA TATGNTATAT AAAGGTGATT 240
GCNGCNTTNC ANTGTTAGCC CCNGTGNN 268

SEQ ID NO:5440

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06474

SEQUENCE DESCRIPTION:

GATCCAGGCT CAGAACTTCT TCTCCAGCTT CACCCTGATG AAGCTGAGGC ACTCCTCCGC 60
TCTGGGTGGG GCCAGCCTAG GGGCCAGGCA CATCGGGCAC CTNCTCCCA TGGACTATAG 120
CGCCAATGCC ATTGCCTTCT ATTCCTACAC CTNTTCCTAG GGGGCTGGTC CCGGGCTCCA 180
CCNGGTCCAA GCTCAGTGGA CACTGGGTCT GAAAGGAAG AGTCTTTTGN TTCCTTTCTC 240
CTNTTACAN GAACAAACAT AGATGGTAAA TAAATNNACT TTNTCCNCT CCCAGAANN 300
NAATNN 306

SEQ ID NO:5441

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06475

SEQUENCE DESCRIPTION:

GATCAGCTAC ATAAACGGC CTGAGTGCTG TTTTAAACAG CNCTTGGGTG ATGGTACAAC 60
ATNACTTTT AAGATAATNA NGTAGTAAAA GTTCTAGTG GAAACATGAA A 111

SEQ ID NO:5442

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06476

SEQUENCE DESCRIPTION:

GATCCCAACA TTTTGGCAG TGAGCATTAC GATGTTANCC GTGGGGTGCA AAANATCTGA 60
ATAAAATTA CAAAAGGAGA ATTCAGACAG ACCAACCTGG GTNATGTGT TCAAGCTCTG 120
CCCCAGGAGC TTGAATGTCT NTNCCTNGTG GCAGGAGCAT TCCTAGAGAC TGGTGCATCA 180
GGTTTATGT TGTGTCTCT CTGCTCCAGC TCACCCNTNA AANCTCTNCC CTNGGATGTT 240
GGAACTCANA TTCTN 255

SEQ ID NO:5443

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06477

SEQUENCE DESCRIPTION:

GATCCCATAA AGTACGAGG GGGACGGGAG AGGGCAGTGC AATGGGAAGT AAAGAGATAT 60
TTNCCAGTAG GAAAAGCAAT GCTTCTTGT CTTTAGACTC AAATGCTTAG GGAACGTTTC 120
ATTTCTCATT CATGGGAAA GGCAGCCTCC TTAAATGTTT NCTGAAGAGC GGTAATCT 180
AGAAGCTTAA GANTTNCAG TTCCTTCAAT AACCATGATG ACCTGAAGTN CACCTATCCC 240
ATTTAGCAT CTNCTTGTTT TNCCCATCTC TNCCTTTCCA ATTTNCTTA TNCTGCTGTA 300

ATATTTTGT AAA

313

SEQ ID NO:5444

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06478

SEQUENCE DESCRIPTION:

GATCAGCTCA CACCCAGTCT CTCACAAGTN TTCATTCCAT AAAAGTGGTT GACTAAAGTG 60
AATATGTCCA TAGTGGGGTC TTTTAATCCC TCTGGTCTTA CCANGGGTTA GANGTCTNTN 120
GGTTNTAACT TTTCCATATT GTTAGAACAT CATGGNGACA TCATGTNCAT CTGTTCAAAA 180
TTACAAGAGG CTTTNCNAAG CTCTACCATG CTTTGNAN 218

SEQ ID NO:5445

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06481

SEQUENCE DESCRIPTION:

GATCATTGTG AAGGCAGGGG AATGTATGTG CACATCTGTT TTGTAAGTGT TTAGATGAAT 60
GTCAGTTGTT ATTNATTGAA ATNATTTAC AGTGTGTGGT CAACATTTCT CATGTNGAAA 120
CNTTAAGANC TAAAATGNTC TAAATATCCC TTGGACATTT NATGTCTTTC TTGTAAGGCA 180
TACTGCCTTG TTTAATGGTA GTTTTACAGT GTTTCTGGCT TNGANCAAAG GGGCTTAATT 240
ATTGATGNNT NGGATN 256

SEQ ID NO:5446

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06482

SEQUENCE DESCRIPTION:

GATCCGGAAG CGAATTCATC TCCGAGCTGA GGATNCCTTG TTTTNTTTG TCAACAATGT 60
CATTCCACCC ACCAGTGCCA CAATGGGTCA GCTNNACCAG GAACACCATG AAGAAGACTT 120
CTTTCTCTAC ATTGCCTACA GTGACGAAAG TGTCTACGGT CTGTGAAGCT GCTGCCCCTG 180
AGCTGGAGGG GGGTCTCATT CTACAAAGAG AGAGGTGGCC CCCCTTTCTT GACCTGCTCC 240
TCCTTCAAGC TTAAACANCA CCTCCTTATT CAGGACCGGC ACTTCTTAAT GTTTTGTGGG 300
CTTTCTNTCC AGCTNTCTTT NGGNGGGGTA ATGGGTNGGA GTTN 344

SEQ ID NO:5447

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06483

SEQUENCE DESCRIPTION:

GATCTTTCTA GGAGGGAGAC ACTGGCCCCT CAAATCGTCC AGCGACCTTC CTCATCCACC 60

CNATCCCTCC CCAGTTCATT GCACTTTGAT TAGCAGCGGA ACAAGGAGTC AGACATTTTA 120
 AGATGGTGGC AGTAGAGGCT ATGGACAGGG CATGNCACGT GGGCTCATAT GGGNCTNAGA 180
 GTAGTTGTCT TTCCTGGCAC TAACGTTGAG CNCCTGGAGG CACTGAAGTG CTTAGTGTNC 240
 TNGGAGTATT GGGGTCTGAC CCCAAACAAC TTTCAGNTTC NNTAACATAC TGGGNCTTGA 300
 CTGTTTTNTC TNGGTNCCNN ATGGGTCCTG GTTN 334

SEQ ID NO:5448

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06484

SEQUENCE DESCRIPTION:

GATCTAGAAA GCCCTAAGCT CTCACCACTG GCTACCTTGA GCCTCTACAG AATNAGGAAG 60
 TAAAGTCTAA GGCAGTAAA 80

SEQ ID NO:5449

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06485

SEQUENCE DESCRIPTION:

GATCGCANCT CCGAAGACGG AGAGGAGGGA AATGGGGCCC TTTCCCTCT ATTGCATCCC 60
 CCTGCCCGNC TCCTTCCCCG CACCCACGTG CCCTAGATTC ATGGCAGAAA ATGNCCAAAT 120
 CCNGNGTATT TGTGTANAT ANTAAAN 147

SEQ ID NO:5450

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06486

SEQUENCE DESCRIPTION:

GATCATTGTA TATNACACAC ATGTATCAAA GTATCACATG TACTCCAAAT GTTTGTACAA 60
 CTATNATATA TCATTAAAAA AATACAAANT AAAAAATGTA GCTATGAAA 109

SEQ ID NO:5451

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06487

SEQUENCE DESCRIPTION:

GATCCAGTGT GCAGAAGAGC CAGCAGGGAA CCGGAAGCTC TNATGTCAAG GCCAGAGCAG 60
 TTGAGANTGG GNCCAGAGT AGATGCTGAC CTGGGCACTC CACCATTCCG GGGCCACCAC 120
 AGAGATGCCA GCAGGATGCC ACTTTNCCAG CCCGACACAC GGACCTTTNT AAAGANCAGC 180
 AACAGGCAGG AGAGGCAGCG TNTGNCCAGA TTGTTTCCCG TCATTGGGTG GCATNTGTTA 240
 NCTAGCTGNC AAACANCTTC ANCCCGTGTA ATTN 274

SEQ ID NO:5452

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06488

SEQUENCE DESCRIPTION:

GATCACGGCT CTTTTTAAGC CCTGGCAGCA TTTTGGTCCC TGCTCCTTGC CCATAGTAAA 60
ACAGCTTGAA ATATCCCATG CAAGAGAGTA GTTCAAGTG GGCAACTCTG CTCTCTATTT 120
AAAAGCGTGC ACAATCAAAA GTACTATGCA ATTTTAGGAC AATAAAGANC ATACAGTTTT 180
AAA 183

SEQ ID NO:5453

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06489

SEQUENCE DESCRIPTION:

GATCACCAGT GGGCACTAGA TGATGTNGAA GAAGAGCTCA TGGCCAAANA CCTCCACTTC 60
GAAGGCATGT TCAAAAAGGA ATTACAGACC TCTATTTTTT GAAGACCGAG CAGGGATTAG 120
CTGTGTCAGG AACTTGGAGT TGCACCTAAC CTTGTAACCT TGTGGGAGC TGGCACCTCT 180
TGAAATAAAA AGGGAGGNTG CACGAGCTGG GCAAA 215

SEQ ID NO:5454

LENGTH:70

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06490

SEQUENCE DESCRIPTION:

GATCAAAAAA TTCAATTNC TACAAGTTCT NCTATCTGAA ATAAATAACA GACTCATTTT 60
TGACAATAAA 70

SEQ ID NO:5455

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06491

SEQUENCE DESCRIPTION:

GATCANGNTA GTGGTGTCTG TCAGCTGTCT AAGAGGTTGG AGAATNAACT ACTCAAGATA 60
GTCACGAAAA NACTGAAAGT TTNATTTCC TTTCCATATT TAAN 104

SEQ ID NO:5456

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06492

SEQUENCE DESCRIPTION:

GATCCCAGTT ATCCTTGNAT CCATGTAATT TCAGATGAAT TATTAAGCAA ACATTTTAAA 60
GTGAATTCAT TATTA AAAAC TATTCATTTT TTTCTTTGG CCATAAATCC NCTAATTNTC 120
ATTAA AATTC TAAGGTCATT TCAACTGTTT TAAGCTGTAT TNCTTTAATT CTGCTTACTA 180
TTTCATGGAA AAAANTAAAT TTNTCAATTT TAAA 214

SEQ ID NO:5457

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06493

SEQUENCE DESCRIPTION:

GATCCAGAAT AACTTCTCCC ACTCATATCT NCAGTTCACC NAATGAAATN AATGGATAGC 60
AAGAGCCCNT TGTTC CAGG ACTTTAAGGC AAAATATTAA AANTN 105

SEQ ID NO:5458

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06496

SEQUENCE DESCRIPTION:

GATCCTTTTA TAAATTTAAA AAATTTAATG TTAATAAAGC GAGGTGTAAT TGTAAA 56

SEQ ID NO:5459

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06498

SEQUENCE DESCRIPTION:

GATCCGNGAA AGGCTGAAAG GCCAGGAAGA CAGCCTAGCC TCTNCAGTGG ATGCTGCCAC 60
CGNACAAAAG ACCTGTNACT CCGACTGAGG CATGNCCTGC CCN 103

SEQ ID NO:5460

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06499

SEQUENCE DESCRIPTION:

GATCNTGGAT NTAGAAGAGG TNACATTGCA CAATGTTTGA ATAAGGAAAC TATTGGAAAG 60
TTTTTCCAAG CTGACATTGC AGAAAATGCT TTGNAAAATT CCTCAGAAAC AGAAATACCT 120
ACTGTCAGCG TTTAGCTGA TGAAGANTTC CTTCCCTNCA AAGAAAATAC ATTTGACCTG 180
GTGGTNNGCN 190

SEQ ID NO:5461

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06500

SEQUENCE DESCRIPTION:

GATCCCGCCC ACTCAGAAAA GGCAGAGAAGG CTTTGTAATT TTCTACATGA ATCAAACACA 60
GAAACAACCTT TTGGAGAAAT TAAATTCTGA GTGTNACTTC TGAAA 105

SEQ ID NO:5462

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06501

SEQUENCE DESCRIPTION:

GATCTTCTTC ACACCAAGCT CTGTTTACAT TCCGAGAGTT GTCATGAAGA AAGTNCTNNT 60
CAATAAGNTT TTGGAATGTT AAA 83

SEQ ID NO:5463

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06502

SEQUENCE DESCRIPTION:

GATCAGGACA CGAGGAAGAG TAAATGTGAG ACAGTCAATG TGACTTCTGC GATAAACAGA 60
TTTTTAAACC CCGAAATTTT GCAAAATTTT GGTGAACCTG ANCTTNCTTC GTTGCATATG 120
CTGGCACTAT CTGTACCATC ATACANCTGT CTCACATTAA AGCTATTTTC CTTGGGCAAA 180

SEQ ID NO:5464

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06503

SEQUENCE DESCRIPTION:

GATCATCTCC CCTGGCAACG TGACTCTGTT TTTTGTGTGT GTTCCATGC TGACTAGTCC 60
CCTACTGTTA ATATCACTAC TAATTAGGCT ATAACCAGGT CTTTCTGGC CTGAGAAATA 120
TTCTCTTAAA ATNACCTTTG TTTTAATCTC ATTCATGATG TTGATTTTTT TTCAATGTGG 180
TGCAATATAT ACANTAAAAN TNGTCATANC TAAA 214

SEQ ID NO:5465

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06504

SEQUENCE DESCRIPTION:

GATCTGTCCA GGGAGGTGGC TGAAGAGTGG GCATCTCCCT TAGGGACTCT ACTCAGCACT 60

CCATTCTGTG CCACCTGTGG GGTCTTCTGT CCTAGATTCT GTCACATCGG CATTGGTCCC 120
TGCCCTATGC CCCTGACTCT GGATTTGTNA TCTGTAAAAC TGGAGTAAAA ACCTCAGTCG 180
TGTA AAA 186

SEQ ID NO:5466

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06505

SEQUENCE DESCRIPTION:

GATCTTTGCT TCCTTNCTAT TATGTTTGTA CACAACACCT AAAACCAGTT TTGCTGCTAT 60
ANTTCTATAC TGTGATTTCG TCTGCNANNT ATCTGTAACC AAATAAACAT AATAGGN 117

SEQ ID NO:5467

LENGTH:309

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06506

SEQUENCE DESCRIPTION:

GATCCAAACC AAAGACTGTA GAACCCTGGG GTGTGGCTAA CTGGCCCN TN CNGCACCCGT 60
AGCCAGGTCT TCCTGGCCCT TNAGGCTGGG CTGGCGGACA GGCACCTNCC TGTTCCTTAA 120
GCTGAAGCTC CCACACTGTC TTCCAGGGCT GAGGAGATGC TCTCCTTTTC TACTGACCAT 180
CTTGATACTT ATTTATACGA GAGNCAGTTG CTGGACGGGG TAGTACTGGG AAGCAGGAGG 240
CAGAATGGCT CTGCTGAGCC TNCNACCCAT GGNC AACANC CTAATAAAAC AGANCATTTT 300
AGAGCCAAA 309

SEQ ID NO:5468

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06507

SEQUENCE DESCRIPTION:

GATCCCATAC CAGAAGATGA GAAAAAAGAA TAAGTGTTC CTTGTTTTGT GTGTTCTAAA 60
TACTTTTTNT AATGAAAAAA TGNTTTTNG TTTTAAA 97

SEQ ID NO:5469

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06508

SEQUENCE DESCRIPTION:

GATCATCTAA ACTAAGTCCA GCTGCCTAAT TCTAGATATA TATATATATA TAGAGNTCCA 60
CCATAAA 67

SEQ ID NO:5470

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06509

SEQUENCE DESCRIPTION:

GATCTTGGA AGTATTCCCA AGGAAAACAG TCCTGGGCAC AGTCTCCAAA ATAAATTCTN 60
AATTTTGGGA AA 72

SEQ ID NO:5471

LENGTH:467

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06510

SEQUENCE DESCRIPTION:

GATCCCATGG CTTTCTTTAC TGGGCTCTGG GGCCCTTCA CCTGTGTAAG CAGAGTGCTG 60
AGCCATCACT GTTTCAGCAC CACTGGGAGT GTGAGTGCGA TTCAGAAGAT NACGCGGGTA 120
CGAGTGGTGG ACAACAGTGC CCTGGGGAAC AGCCCATACC ATCGGGCTCC TCGCTNCATC 180
CATGTCTATA AGAAGAATGG AGTGGGCAAG GTGGGCGACC AGATACTACT GGCCATCAAG 240
GGACAGAAGA AAAAGGCGCT CATTGTGGGG CACTGCATGC CTGGCCCCCG AATGACCCCC 300
AGATTTGACT NCAACANCGT GGTCTCATT GAGGNCAACG GGGAACCTN TNGNGACAN 360
GTATTNAAGA CACNGTNCCC ACCTAGGCTG TGGNAGGGTG AAGGGCGAGT TTTCCCAAGN 420
TGGTGGGCCT TNGTTNAGAN CTTTGTGTTG NGTTTGGNNC NNGNTAN 467

SEQ ID NO:5472

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06511

SEQUENCE DESCRIPTION:

GATCTTAAT NTCTTGACTG ATTTAAAAAG CTAATCAATT TATTAAAGCC AGANATGTNC 60
TCCTCTGGGA AAGCAATTTT TATCTATTTA TCTACCAATC CCCACTCACA TATATATGTT 120
TGNTTTTACA TAGAGATAGA TGGTTTTAAG GTTTTCCTA TTGTAAATTT ATTTCTAAG 180
ACATTGTGGG NTGGAGACCA CTAACTTAT A AAACCAA GGAAAGTAAA GTTTTNCAAA 240
TGTTTATACT GTTTAAGGTG TTTATTTATN TA NCCATGC ATGGGGTNNC ATGCATAANT 300
NNNGNGGTTT AAATTCACC AGTGANN 327

SEQ ID NO:5473

LENGTH:70

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06512

SEQUENCE DESCRIPTION:

GATCAAGGAA CTTGTGCCTG TCTATAGATT TTATTTCCCC TGTACAAATA AACTGGCTG 60
CAATCCCAAA 70

SEQ ID NO:5474

LENGTH:414

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06513

SEQUENCE DESCRIPTION:

GATCTTGCAA GACTAAAATT GGCCATTAAG TACCGTCAAA AAGAGTTTGT TGCCCAGCCC 60
AATTGTCAAC AGCTGCTGGC ATCTCGCTGG TACGATGAGT TTCCAGGCTG GAGGAGAAGA 120
CACTGGGCAG TGAAGATGGT GACATGTTTC ATAATAGGAC TTCTTTTCC TGTCTTCTCT 180
GTGTGCTACC TGATAGCTCC CAAAAGCCCA CTTGGACTGT TCATCAGGAA GCCATTTATC 240
AAGTTTATCT GNCACACAGC CTNCTATTTG ACTTTTTTGT TCCTGNTGNT GCTTGCCTCT 300
CAGGACATAG GCAGGTCAGG NNTGANCNGG GAAGGTCCAC CACACCATC GTCGAGTGGA 360
TGATATTGNC NTGGGTNCTN GGNNNATGTG TTANNTAGGA AATGTNATAA ANCN 414

SEQ ID NO:5475

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06514

SEQUENCE DESCRIPTION:

GATCAACAAT NAGCATCAAA TCTATGGCTC CTGGCTCCAG CANCAAGACG CAAGAAGACA 60
GGANGAGAAG CANGAAGTGA GACTGGAGGG AAAGGGAGCT GAGTCTNCTA GN 112

SEQ ID NO:5476

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06515

SEQUENCE DESCRIPTION:

GATCATTCTT TTATAGAGCA TATTTGCCAA TAAAGCTTTT GGAAGCCGGA AA 52

SEQ ID NO:5477

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06516

SEQUENCE DESCRIPTION:

GATCTAACTT TGCACCTCTT GATAATAATG TTTTAGATAA TGTGCGTAAT CCAAATTGGT 60
ATTGTAGCCT CTGTAAACAC AGACAGTATA TGTTTTAAAC TTTGATGTAA ACCTTTTNA 120
ACCCAACTT GTGGAAGTAT CATGTGTTAA GTNCTCTGTC TCTGTTTCTT TGTTCAATTA 180
TTACTAAAAT GAACTTGTTA TTAAAGTATA TGCAAATNTG AAA 223

SEQ ID NO:5478

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06517

SEQUENCE DESCRIPTION:

GATCCGGGGN AGCTGTATCC CCAGTAGAAA AACATTTTA ATCACTCTAA TATAACTCTG 60

GATCAAACAC ACCTTTTTTT TTAATAAGAA AAGAGAATTA ACTNCTTCAG AAATAACTAA 120

TAAATGAAAA ACCTTTAAAG GAAA 144

SEQ ID NO:5479

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06518

SEQUENCE DESCRIPTION:

GATCTTTTGA CGNNTATANA AATGTACTAA TGTNATAAGT TAATGCTGGN CATTTCATT 60

ATATATATTT TTAAGAGGCT AGAGGCTTTT AGCTTTTTAA AACTCCATTA TATACAN 117

SEQ ID NO:5480

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06519

SEQUENCE DESCRIPTION:

GATCTTTCAT TCTCATGCAG ATATTTCTAT TGTGGGCTTA TACATTTGNT CACCTATTGT 60

TGATGGNACT TGNGACTTTC CATTTTGGCG CTATTACAAN TAGGCACTAT GAATGACTGA 120

TGNACCACTT ACTTGAGCTT TATGNCTTAT TNTCAAAGCN GCAAAATN 168

SEQ ID NO:5481

LENGTH:395

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06520

SEQUENCE DESCRIPTION:

GATCAGTTAT GAAGAAGGGA AAGCTTTGGC AGAATCTTGG AATGCAGCTT TTTTGAATC 60

TNCTGCTAAA GAAAATCAGA CTGCTGTGGA TGTTTTTCGA AGGATAATTT NGGAGGCAGA 120

AAAAATGGAC GGGGCAGCTT CACAAGGCAA GTCTTCATGC TCGGTGATGT GATTCTNCTG 180

CAAAACCTGA GGACACTGGG AATATATTCT ACCTGAAGAA GCAAGCTGCC CGTCCTCCTT 240

GAGGATAACC TATGCTNCTT TTTNCTCCTG TTAACCTGNA AGATATCATT GGGNTCAGAG 300

CTCCCTNCCT TCAGATTATG TTACCTCTGA GTCTGTCCAA TGAGTCACTT CCATTTCAAA 360

TTNNNNGCAT CNNTTNCAN TGTGTATGTN GNATN 395

SEQ ID NO:5482

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06521

SEQUENCE DESCRIPTION:

GATCTTCCAG AGAAGGGAAC ATCTGTCACA GACAATGACT GTATCTGTNT AGATATTTCT 60
TATTTAATAA AGACGATTG TCAGTTAAA 89

SEQ ID NO:5483

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06522

SEQUENCE DESCRIPTION:

GATCAGAAAT GCCTCCTTTA CCTACCAGAG CCTACAACAC TACCTGCCAC TAATAGTTAT 60
GTCACCTCT TATTAATCAT CATCTAGCCC TAAGTCTGGN CTATNAGTGA CTACAAAAGA 120
TTAGCTGAGT GAATAAA 137

SEQ ID NO:5484

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06523

SEQUENCE DESCRIPTION:

GATCAGGGGA AGAATACCAA CCTGCATAAG TGTACTAANT CTACGTCTGG TTAATGTATG 60
TACTCTCCTG GACTGAATGC AGTGTATAAT TCCTGTCTAC ANTAGAAGTG TGCCCCAGTT 120
CCACATTTGA TTACACATGT GAGATTGCT GCTGTTGCAT ATAACACTAG GNTAATAGNT 180
TTGNATNCAT GCAGTCATAA AAATTGGAAT GAGAATTAAN CTGCAGGAAC ATTTGNACGN 240
TNTCTNCNCN 250

SEQ ID NO:5485

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06524

SEQUENCE DESCRIPTION:

GATCAGAACC AGAAAGAACT NTGCTTNACC GAGAAAATAT CTAAACATCG AAAAACTTAA 60
ATATTATGGA AAAAAACAT TGCAAAATAT AAAGTAANTA AAAAAAGGAA GGANCNN 117

SEQ ID NO:5486

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06525

SEQUENCE DESCRIPTION:

GATCTAATGC AGGATGTCAG ACTTNTNTCT ATCCAGGAAT AAAACCAGTT ATGCCAGAAG 60
TAACTATTAT NCACCTNTCT CCTACTGAAT TAAAATACTA TCAGTTGTAT ATNAAATN 118

SEQ ID NO:5487

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06526

SEQUENCE DESCRIPTION:

GATCACAGTT TTCAGCANNT CAGACATGGT CTTGNGTAGT TGTTCACAG TGTTCGCCAG 60
CTACAGAGGA AANGNCAGAC TCACAGAAGG GTGTCATTTA GAAGAAAGAA CACTAATN 118

SEQ ID NO:5488

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06527

SEQUENCE DESCRIPTION:

GATCCTCAAC GAAATCAATC TCACAATAGG NAAGGAAAAG NCAATACAAG GAAGAAACCA 60
TTGAGAAGAT GCAGAATAAA GTAATCTTAT ATACANGCTT TGATTAAAAC TTGAAACAAA 120

SEQ ID NO:5489

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06528

SEQUENCE DESCRIPTION:

GATCGCCATC ANTTGGGTAG TGACAGNGTA TTAATTTGCT TATACANTTN CTTTACTNTC 60
CTTTTTTCCT TTCTGGAGCA TCACATGCTG GTGCTGTGTC TTTATAATGT N 111

SEQ ID NO:5490

LENGTH:422

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06529

SEQUENCE DESCRIPTION:

GATCCTACAG ATACAAGTTG CTAAANGGGC ATATCAACAG TCCAACAAAT AAAGAAGATG 60
CCTGGATTGA GCATGATGTT TGGAGATGGA GATTTATGTG TCTCTGGGAT TGTGGGTTGG 120
ANTACTGGTC TGTGGCTGTN ACANCTATTC CTCTGTGAGT GACTCTTGCA TGGAGAGATT 180
CATATATTCA GGCAGCTAGG ATTGTTTCCT CTACTGGGAC ATACACGATT GANTTTNCTG 240
AATANGGGTA GTTAANCATT GTATGTTACN CNCACTTTG TGCTTTTCCT CCATTGTGCC 300
NTATTAACGC TCTTTCGCNT CTGNGAGAGT CTGAGTTAGC TGGTGGAGCG CCAAATACAA 360
CTGGTTGTCC GTGTGTNCTT TCCCTTTGTC ANTGGTTTGC CACATCAGTT TGTGNTGTAT 420
GN 422

SEQ ID NO:5491

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

01642

CLONE:HUMGS06530

SEQUENCE DESCRIPTION:

GATCCCCCAG ATACCAGCTC TTCTGGNTAT ACACAGACCA GCTATAATTN GCTAAGCATA 60
AANTATTNCA GTGTATTAGC CAGCNGTGGC TCCAGAGTCT GTGCCCTTGA CCACCGTGCC 120
CAACTGTTTC ACATGCTGTG TTTGGTAGTT TNNCCTAGTG CTCTCCTTAA TAATGGTGGT 180
GTNTAGCAAA NN 192

SEQ ID NO:5492

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06531

SEQUENCE DESCRIPTION:

GATCATTAGG TCAGAGTTTA CACGNCCTCT CGTCACTAGA ATCCACCCAG CCCACGAATC 60
ATCACCCNCT TGAAGGACAT TATTACTACT GNAANTTNGA ACAAAC TN 108

SEQ ID NO:5493

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06532

SEQUENCE DESCRIPTION:

GATCCATCCA GAACAGCGGT ATCTGAAGCC CAGGCCATAC TCCCTGCCTC CTTNCTTCTG 60
CCTACCAGAG GCTCCANAGT TGAGCTTGTC CN TTATCTAG AAACATGTGA AGATGCCCAA 120
GAGCCTGGAG GCACTGCTGT CCTTCCTNCA GAAACAGTTT CTCCTCCTNC CCTCAGCCTT 180
GTGGCCANTT CCNCTTCACA TGAAGCCCCT TGGCATTTC TNGGGAAGGG ACTNGCCTGG 240
TACTTGCTGT TAGGGCAGGA AGGGGCAAAN GGNNGACTTT GGGTAAGTAA TCTGGGGGGT 300
TTAGATGGGN AGCANTAAGC CAGCTNGGN 329

SEQ ID NO:5494

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06533

SEQUENCE DESCRIPTION:

GATCATGCTT GTNTNAGGCA ATCATGGTGG CATCACCCAT AAAGGGAACA CATT TAACTT 60
TTTTTNC TCA TATTTTAAAT TACTACANGA TTATTAAAGA TAAATNATT TGAAAACTC 120
TTAAA 125

SEQ ID NO:5495

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06536

SEQUENCE DESCRIPTION:

GATCATGAGA CTGAAATTGG TCAGAATTGT GTCCAGAATG TGCTCAGCTA ATTCAGTATT 60
 CTTCCCCATT CTGGGTGGA GTTTACTGCA GAGTAATTCT TACAGTGCTG ATGTCAAGAC 120
 TGTACTGTT CTTCGACTTT GATTCCTTGC TCATGACATG AGTAGGGTGT GCTCTTCTGT 180
 CACTTCACAC AGACCTTTTG CCTTTTTTAG CTGCAAGTCA AGGACTAGGT TGATGATGCN 240
 CATGACCTGT AATTGTAAAG ANGCTTGGNC ATCTGCAAAT GATATTNAGA CCATCTNGGC 300
 TTGTGCTTNN ATTCAAATA ATGTGAACCA ATANGTN 337

SEQ ID NO:5496

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06537

SEQUENCE DESCRIPTION:

GATCCATGAT GATAATTAAG AGAAGAGAAA AAAAGATATT ATTTTGTNA GGACAAACCA 60
 TTGTAGGTTT TTAGCAATGT GTATCTGTGT GTCCCTCACA CCTTTCCTA TTCTACTTTT 120
 TTTTCCTTTT TTTAAAAATA TTATGTACTA TATTTNAGT CTCAAACACA CTATATATTA 180
 TATATNTNNN NNNN 194

SEQ ID NO:5497

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06538

SEQUENCE DESCRIPTION:

GATCATTTCT AGGCAAAATT GTGAAGCTAA TGACCAACCT GTTCTACCT ATATGCAGTC 60
 TCTTTATTTN ACTAGAAATG GGAATCATGG CCTCTTGAAG AGAAAAAGT NACCATTCTG 120
 CATTTAGCTG TNTTCATATA TTGCATNTCT GTATTTTTTG TTTGGATTGT AAAAAGTTCA 180
 CATAATAAAC GATGGTTGTG ATGTAAA 207

SEQ ID NO:5498

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06539

SEQUENCE DESCRIPTION:

GATCCAAGTG ACCAAAGGAG TTCAAGGCC AAAATTTAGT TATGCTGGAT TAATTCTGAG 60
 AGTAACAAGC ACATAGATTA TAATCTAAGA AAACCCTTTG TAGCTATGCA TNGTCGGGAG 120
 AGCATCTAAC ACTAATGGTG ATGTTTCCCA TGCAGAGACT CAGATTACAG TGA CTCTTCC 180
 AGTGAAGACA GATGAAAGCC ATTGGGCATT GTNCCTTTNT TAATCCAAGC TAAACTANCC 240
 AAGGATATAG GGGTGTGTAT GTGTCTGNGT GTGTGTGTTT GTNTGTGTGT GCACATACAT 300
 NTNTAGGTAT GGTGTGTTGGN 320

SEQ ID NO:5499

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06540

SEQUENCE DESCRIPTION:

GATCTGTCTT GGTCGTTTGT GTTATAAAAC CAAAGTTCTC TACAGACTTT ATTTTGTAC 60
AATATCATTT TGTAACTTT TACAAATAAA AACTCATTTT TATTGCTCTC TGAAA 115

SEQ ID NO:5500

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06541

SEQUENCE DESCRIPTION:

GATCACTTAC GGAGAAACAG GAGGAAATAG CCCTGTCCAG GAGTTCACTG TGCCTGGGTG 60
CAAGTCTACA GCTACCATCA GCGGCCTTAA ACCTGGAGTT GATTATACCA NNACTGTGTA 120
TGCTGTCACT GGCCGTGGAG ACAGCCCCGN AAGCAGCAAG CCAATTTCCA TTAATTACCG 180
AACAGAAATT GACAAACCAT CCCAGATGCA AGTGACCGNT GTTCAGGGNA GCAGCATTAG 240
TGTCAGTGG CTGCCTTCAA GTTCCCCTGT TACTGGTTAC AGNGTANCCN NCGCTCCCN 300
AANTGGGCCA GGAN 314

SEQ ID NO:5501

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06542

SEQUENCE DESCRIPTION:

GATCTGGGTT TAGAGTGTGT ATGATTAATA AATATACCTT TCCTCTTTTC AGGGAAAATA 60
ACAACCACCC NTACTGATAG TTGGGAAAAG AAGATTGGGT TATTTNCCA TATCATTTAG 120
CTGGAAGTGA CATTTAAAAG CACCCTGCAT CACTAGTAAT AGTGTATTN NCTATTCTGC 180
CCTTGTAATC GGTGTCCCTG TAAACANTC CCCACAGATT ACTTTCAGAA ATAGATGTAT 240
TTCTCTNCGT AAGGGCCAGG TTTATTTCCT CCTTTTTTGN GATNNNNGGN GGAAANTGCT 300
GCTTGACAT TN 312

SEQ ID NO:5502

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06544

SEQUENCE DESCRIPTION:

GATCATCCTG TAAACATTTT ATCATGTATT AATCATCCCT GCCTGTGTCT ATTATTATAT 60
TCANATCTCT ACGCTGGAAA CTTTCTGCCT CAATGTTTAC TGTGCCTTN NTTNGCTAG 120
TATGTGTTGT TGAAAAAAA AACATTCTCT GCCTGNGTTT TAATTTTGGT CCAANGTTAT 180
TTNAATCTNG TACAATTAAG AGCTTTTGCC TATCAAA 217

SEQ ID NO:5503

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06545

SEQUENCE DESCRIPTION:

GATCAGGTTG AATGAATGGA ACTCTTCCTG TCTGGCCTCC AAAGCAGCCT AGAAGCTGAG 60
GGGCTGTNTT TGAGGGGACC TCCACCCTGG GGAAGTCCGA GGGGCTGGGC NAAGGGTTTC 120
TGACGCCAG CCTGGAGCAG GGGGGCCCTG GCCACCCCT GTTGCTCACA CATTGTCTGG 180
CAGCCTGTGT CCACANTATT CGTCAGTCCT CGACAGGGAG CCTGGGCTCC GTCCTGCTTT 240
AGGGAGGCTC TGGNAGGAGG TCCTCTCCCN NATCCCTCCA TCTTGGGGCT CCNCCAACCT 300
NTGCACAGCT CTGCGGGNGC TGAGATATNA ATTN 334

SEQ ID NO:5504

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06546

SEQUENCE DESCRIPTION:

GATCTTTTAA AGGTTTTNAC CATTTTGTNA TGAGGAATTA TACATGTATC ACATTCACTA 60
TATTAAAATT GCACTTTAT TTTNAAA 87

SEQ ID NO:5505

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06547

SEQUENCE DESCRIPTION:

GATCCATCCC ATGATTGTG CCTGTCTGAG GCATAGAGGC AGGCAAGCCG TGGATTTTNC 60
ACATGGTGAC TTTCCCACTG TGCCATGATA CAGTGTGCAT CTTATAGCAG TGCCTTTNTG 120
TCAGGGTCTC TGCTGGCAGT CTAGACCTTT TGGGCAGAAA GGAGCTTCAA ATGGCTGTGA 180
TAAGGAATAT TAAAAATNGT GTTTCTACTT TAATTGTATT GGCTGTTCAT GTATGTAGGA 240
GTTAAATAG GCCAACTGG AGAAATAAGC GCATTCTGTC CACCANAAAN GTGGNTTGGN 300
TGGTNNNTGT NNGNTTNGGN GGN 323

SEQ ID NO:5506

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06548

SEQUENCE DESCRIPTION:

GATCAAGTTG CCATGAAAAA CCATCTACTA TATGTNAGAC ATGACATTCT NTTTCTCTCC 60
TTCTGAAAAA ATAAAGTGTG GGAAGAGAAA 90

SEQ ID NO:5507

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06549

SEQUENCE DESCRIPTION:

GATCTTACTT TCTTGCTGCT TTTCCAACTA TAATCATTTT GCTCTTGCTT TAACAAAAGN 60
NGNGGCACAG NAATTTAGTA AATTTGTGTA ATAACATTTA AA 102

SEQ ID NO:5508

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06550

SEQUENCE DESCRIPTION:

GATCTCACCA CTGCACTATA GCCTGGGCGA CAGAGCAAGA CTCCCGCTCC AAAAAANGGA 60
GAAA 64

SEQ ID NO:5509

LENGTH:360

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06551

SEQUENCE DESCRIPTION:

GATCCACAAA TCGCTAGGAA TGTGTATACT CTGGGTAGTA AGTTTGTAGT ATTAGAAGGT 60
TTAATGACAA GTATTTGAAG AGCTGAAGTT AAGTGTGGG AGGCCATCCC TTATGAAGGA 120
CAATGAATGG CAAGTAAAAG ACCAAGTTCT GTTCCTGGGT CCATTAATTT AGTTAAAANG 180
GCAAAGTTCT TTCAGCACAC ATATCTGCAT GCAGTCACGT GCTGCCTAAG GNTGCTTCAT 240
TCAACANTGA GCCTCACAGC CGTGCTACAC ANTAGGATAN TACTGTATTT TTNCTGTACC 300
TTTTAACATT GTGTTACAAT GGCCTACAAG AGGCTTGTGT GGNTGGCTTT NNNTGTGGGN 360

SEQ ID NO:5510

LENGTH:357

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06552

SEQUENCE DESCRIPTION:

GATCATCCTC ATTAGCACAC AGATTTTNA AATCAATTC TCTNGCCATG CCTCCTATGT 60
GTTACATCT CTGCATACAC TACAGATATA AGTGCATAAT CATTATATA NACATCTGGT 120
AGGTATTCTG TAAAACTGTG TTTACTTTAG TGCATGTNAT TGTCATGTNA TGATGTGACT 180
GGGGTGTTC TTTGTGCATG AAACTTTGCT TCTNCACAGA NNTAGATTAC TGCTCTCTCT 240
ATATNGANCT NCATATACAG CGTTTTCTTG TTATCAGCCC CCCNAAGTCT GGGATGCCCG 300
GTGGTTGGTG NTGACATGTG AGTGGTGNCC TGGNGGTCT GNTNCACATA GGGGCNN 357

SEQ ID NO:5511

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06553

SEQUENCE DESCRIPTION:

GATCTTTTCA GCTGCTATTT TGGAATAATG ACTATCATAT ATCATAACAG TGA CTGATGT 60
TGGTTGTAAT GGTG GGTGTT AGGATGAACC ATTTTAAGGA TGCCAAATNA AATATTAGTA 120
TTTGTACACA GTAAGAAA 138

SEQ ID NO:5512

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06555

SEQUENCE DESCRIPTION:

GATCCCAGCA GGGNTTCTGC TCTGGGGCTG GCAGGTTGCC TGGTATTATG CCCAAGGNCG 60
NTCTGCCTGG GGGAAAGGGC AGCCAGGCAG AGGCCCAGTG TCTAGTAGGC NGCTGAATTT 120
CCTGGAAGGG GTGATTGGTT GGAAAGNGGN CAGNAACCCC AGCCTNN 167

SEQ ID NO:5513

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06556

SEQUENCE DESCRIPTION:

GATCCCTTGG AGCACCTTNA TGCCTGGGGT TTCTCTCCCT AAAGCTTCTT GCAGTCTAAG 60
CCTTATCCCT TATGTNCCCC ATTAAAGGAA TTTCAAAAGA CATGGAGAAA NTTGGGAAGG 120
TTTGTNCTGA CTGCTGGNNG CAGAATAGCC GTGGNAGGN 159

SEQ ID NO:5514

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06557

SEQUENCE DESCRIPTION:

GATCTGGACA AATGGCAAAT AATTTGGGGT TGAATTATGG CCCAGAGAAG TAAGCAAATG 60
NAAAATAAAA CANTTATAAA TGTATCTGGG AAGCAAAGGT ATTCATANTA NGTCCCATGG 120
CCAGCTGCGA GCAGTATTTA ACTAGACATG CTGTTGTCAA TANNNNN 167

SEQ ID NO:5515

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06558

SEQUENCE DESCRIPTION:

GATCGTCCCC CTTNTGGGC TGAAAAGCA GGTGAGGNTG GGGTGGGCTG AGGCCATTNC 60
CGCCACTATC TGTTTAATAA AATCCGTGAG CACGAAA 97

01648

SEQ ID NO:5516
 LENGTH:225
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06559
 SEQUENCE DESCRIPTION:
 GATCCTCCGG AAGTAGTCTC TNCCCTCGGC AGCGGAAATA CTGATTCCCA CTGCTCCTNC 60
 CTCTAGGGTG CAGTGTCGGT ACCTNCTGGA GCTGGNCCCT CCTTCCCCAN CCCAGACATT 120
 GAGAAACTTG GGAAGAAGAG AGAAACCTNA AGCTCCCAA CAGCACGTTG CGGAAAGAG 180
 GAAGNGAGAG TNTGAGTNTG TGTGTGNTT TTTCTATTG ANCAN 225

SEQ ID NO:5517
 LENGTH:340
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06560
 SEQUENCE DESCRIPTION:
 GATCATTAAAT AAAGCTTTTC TTGGTTCCTT CAGTGGTGTT GGTAGTAAAA TGGAAGNGT 60
 CTTGCTGCAG GTAACAAATG AAGANGTGGT CAACCACAGA GTCTTCAAGA AATAAGAAAT 120
 TCTGTACCAN CTGAAAGTAG TGCTTGTTGG TGCCTTCNTT TAAAAAGCAC TCTTTTAAAT 180
 AAAAGGGAAA TGTTTTCTGA TAAACCAAAAC ATTTAGTTGA GGTTCCTGAT ATAAACATT 240
 TACAANNTGA GTGTTGTNTG TAAAGCAGTA GCCNTCATT TGGCTAGNG AGNTAAATGN 300
 GTCANGTTTT ANCTAGGTTT TNGTGAGTNG NCAGGTTTNN 340

SEQ ID NO:5518
 LENGTH:330
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06561
 SEQUENCE DESCRIPTION:
 GATCAAAGCC AGNTTTAAAT GGGAGACCGA GCGAGCGCGG CAAGTGCTGG AACACCTGCT 60
 GAAGGAAGGG TTGGCGTGGC TGGACTTACA GGCCCCAGGG GAGGCCCACT ACTGGCTGCC 120
 AGCTCTCTTC ACTGACCTCT ACTCCAGGA GATTACAGCT GAGGAGGCCA GAGAAGCCCT 180
 CCCCTGACTG CATGTGGAAG GGCACACAGC AGCAGGCAGG GAGGAGGCGG AGGTGGCAAA 240
 TAAACCTGGG CAATTTTGT TATACAAAAA ATAGAAGAAA AGTCCAAGT TTTCTTTCT 300
 TCCCTCATT TTTNTTTTT GAAAAAAGAN 330

SEQ ID NO:5519
 LENGTH:111
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06563
 SEQUENCE DESCRIPTION:
 GATCTCATGA TGATTCANAC CACAGNCTGG GNTAAAGATG TCTTGACCTC TGAGGCTAGC 60
 ATAACATATA TNAGAATACA NCTGCCTAT TTCCAGAAAA TCTGTATATT N 111

SEQ ID NO:5520

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06564

SEQUENCE DESCRIPTION:

GATCAGCTTA CTGAAAAGAA GCCTCCNNAG TATTCCAAAT ACAGATTACA TCCAGCTGCT 60
TAGTGAAATT GCCAAGGNAC AAGGNTTTAA TATAACATAT TTGGATATAG NTGAACTGAG 120
CGNCAATGGN 130

SEQ ID NO:5521

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06565

SEQUENCE DESCRIPTION:

GATCACAAT NTGAATATGT GTTACTTAAT AAGGCTAGGC TGGCCATCAG TNGCTTANTT 60
CAGATGTGTC ACTAAATTC CCNTCTAGAT GGTCTTGAG CAAAACTTAA TAN 113

SEQ ID NO:5522

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06566

SEQUENCE DESCRIPTION:

GATCATCACA GTTTGAGTTT GACCCCAATG CCAGGATGGT GACACACATA TTAAAGAGTA 60
ACAGCTGGTT ACATTGCTAG GCGAGATAGG GGGAAGACAG ATATGGGTGT TTTTAATAAA 120
TCTAATAATN ATNCATCTAA TGTATTATGA GCCAAAATGG NTAATTTTTC CTGCATGTTC 180
TGTGNTGTN GAAGATGAGC CTTGCAGATA TCTGCATGTG TCATGNNGAA TGNTTCTGGA 240
ATNCTTNACT TGCTNTTGA NTTGCACTGG N 271

SEQ ID NO:5523

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06567

SEQUENCE DESCRIPTION:

GATCTCACTT TCCCCTGTG GGGTAGGAAC CGATGCCAGT GGGAGGGATG TGCCCCTGAC 60
CATTAACGAC TGTTTTTTTT TTTTTTTTAA AAAAAATGGN GTTNTTGGGN GGGGNAATNC 120
ACANAN 126

SEQ ID NO:5524

LENGTH:156

TYPE:nucleic acid

01650

TOPOLOGY:linear

CLONE:HUMGS06569

SEQUENCE DESCRIPTION:

GATCACGGGA ATGCTGCTGG AGATAGACAA CTCTNAGTTG CTGCACATNT TAGAGTCCCC 60
CGAGTCTCTC CGCTCCAAGG TGGATGAAGC TGTAGCAGTT CTACAGGCTC NTCATGCCAA 120
GAAAGAAGCT GCCCAGAAGG TGGGCGCTGT TNNNNN 156

SEQ ID NO:5525

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06571

SEQUENCE DESCRIPTION:

GATCCTTCTA GACCAAGGAC CCATTGTTAA AAGCATGGAT TCTGCCTGAN TTA CTTCCT 60
TTTGAGAAAT CATATCTCAA ATACATAACC TGGTAATATA ACTGAAAAA TAAAAGTGAT 120
TGCTCCTTCC AAA 133

SEQ ID NO:5526

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06572

SEQUENCE DESCRIPTION:

GATCCCTGCT TCATAGATT GCATCATTCA AGCATATCTT GTAAAACAAA CACATATTAT 60
GGGACTAGGA AATATTTATC TTTCCAAATT TGCCATAACA GATTTAGGTT GCTTNCCTN 120
CTTTGAAGGA AAGTTTAATT ACATTGCTCT NNNNNN 156

SEQ ID NO:5527

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06573

SEQUENCE DESCRIPTION:

GATCCTAGCT GCAGATTGCA TCCCACAATG CGAGAATAAT AAAATAAAAT TNGATATTNG 60
AAA 63

SEQ ID NO:5528

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06574

SEQUENCE DESCRIPTION:

GATCNATGGT GTGACTCAAG CTCCNCCTTA CCCAGGGGGG GTAAGGGCAG GCCTCTAGCT 60
ACTTGAGATT GTCTGTAATA ATCTNGAAAG GCCCAAGGGC CTGTGCCCAT CCTGACTNAA 120
AGGNATCTCC TTCCCTGTTT CATATCACAT GACAGAGAAA CCTGTTCTCA TGGCATGNAA 180

CATCCCTGTN AAGAGAGCGT TGNCNNN

207

SEQ ID NO:5529

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06576

SEQUENCE DESCRIPTION:

GATCTTGCAC ATGAAGCTAC AAAACTGGTA AGAAACAAAT GGCACATGTG NTGGGAATGG 60
AAGTCAACCT TTTTGAATTT TTCAAATGTA AGTCAGTCTG GAAAATCCCA GTAAATTGGT 120
ATATTTGTTT TGGGTTATTT TTGAAGACCT CTTTTAAAT TTGCCTAAAA TAAATNCTCG 180
GTATGCTAAA 190

SEQ ID NO:5530

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06577

SEQUENCE DESCRIPTION:

GATCCGCCGC CAGAAAGGTT ATGCATCATG TGCCACAGCC TCCAAGGTGC CCATCATGGA 60
ATNTCGTGGG GGCTGTGGGC CNANTGCTGC CAGCCCACCC GCAGCAAGCG NCGGAAATAC 120
GTCTTCCAGT GCACGGNTGG CTCCTCGTTT GTAGAAGAGG TGGAGAGACA CTTAGAGTGC 180
GGCTGCCTCG CGTGTTCTTA AGCCCCTGCC CGCCTGCNTG CCACCTCTNG GACTCCAGCT 240
TGATGGAGTT GGGACAGCCA TGTGGGACCC CCTGGTGATT CAGCATGAAG GANATGAAGC 300
TGGAGANGAA GGTAAGGAG GAAGAGANTA TTANGTATTT N 341

SEQ ID NO:5531

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06578

SEQUENCE DESCRIPTION:

GATCTNTTCC AACAGTTCTN TGTAACCAA ATGCTATTTT TCANTGCATT TGGACTGCTG 60
ACCATTTAAA AGCAGCCTAT GATTGCTTCT TTTTGTAAG CAAGCAACCN GCCTCCACTT 120
TAGCTGTTTT NACTATTNGA TNTN 144

SEQ ID NO:5532

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06579

SEQUENCE DESCRIPTION:

GATCCTAAAA CGAAGAGAAT TTTGACTCTC CAGAAAGCTA ATAGCTGGTT CAACTGCAGG 60
AAAAATTGAA CATTACTAAT TTGAATGGAA AACACATGGT GTGAGTCCAA NGGAGGTGTT 120
TTCCTGAAGA NCTGTCTATT TCCTCAGTCA TTTTAACT CTAGAGTCAC TGATACACAG 180

01652

AATATAATCT TATTATACC TCAAANNGAN TNANANGGGG NNNN

224

SEQ ID NO:5533

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06580

SEQUENCE DESCRIPTION:

GATCTNCCTC NACACCTNGG GCAAAGTCTA TGCGAAGATG GTTCTTAGC TCTCCATTG 60
CCATGATTTT CCTCCCATTG ATCATGAGGG AGTTTCTCAA ACCAGGAGTT NATATTTATT 120
TNTNAGAAAA TACACACTTT TCAGGAGAAA CCTGAGCATG ATTTTGGATT CTCCACCTCC 180
CCCCAGTCTC GGNNCTGGG ATTCAGCTCA AGGNTTCAGT GTCTTCATTT TTACAAAAGT 240
TCCCCAAGA AATCAGCAAC CAGCCTCTGT TTCATCTGGG AGCCCTCCC TNGGNCCCCT 300
GGGTTTTGGG GGGTGCTGNC CTA CTGTTGGGG AACAGCGGGG GGTGN 345

SEQ ID NO:5534

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06581

SEQUENCE DESCRIPTION:

GATCATNTTG GAACCAGACA AGAATCCAAA GAAAATAAGA ACACAGACCA CCAGTGCAAA 60
ACAAGAAAAA GCACCAAGTA AAAAGCCAGT GAAAAGAAGA AAAAGAAGA GAGCTGCCAN 120
TTAAAGCTAA CAGTTGTATA TCTGTATATA TAACTATTAA AAGGGATATT TATCCAAA 179

SEQ ID NO:5535

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06582

SEQUENCE DESCRIPTION:

GATCAAAGTT AAGNTTATAT CCTGTTTGTA GTATCAGATA TNTTCCTGTG TACAATTATA 60
GGATTGTAAT CTACACTGGA ATTTNAGGC AGTAAGTCAC CACAAAATGT TTTAGATAAG 120
ACACAATAAA ATTATTATAA ATAAAAGCTT AATGTTTGTA AAAANTCTCT TTTTAGTAT 180
TTCTTTTTTC ACATGNAAGN NGTGGTGGCT GCTAAANAAA NAGCTACAGT GTTTATTANG 240
GGTCGTTTTG ATTTNTGTNA NTCTTTGTAA ATTGGTCAGT GCCTGTN 287

SEQ ID NO:5536

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06583

SEQUENCE DESCRIPTION:

GATCCCAGAG GCTCTCCTCA CCTCANCTGA GCTCCTTTAA AAGTAATTCA AGGGACTATG 60
TCACTCAGCC TCATTTNCTG GACCAAATCT GGAGGGAGAA CCCCTAAAAC CCCTAAGTAA 120

01653

GGTTGCCCAG GGGGTTGTCC CCAGGTGGGG GGAAGCAGGG GAGAGAAAAT GGTAGCCATT 180
TTAACATTGT TTTGTATAGT ATTTATTGAT TCAGGAAACA AACACAAAAT TCTGAATAAA 240
ATGACTTGGA AACTGAAA 258

SEQ ID NO:5537

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06584

SEQUENCE DESCRIPTION:

GATCGCTTGA GGCCAGTTCA AGACCAGCCT GGCCAACATG GCGAAACCCG TCTCCACTAA 60
AAATACAAAA CTTAGCCAGG CGTGGTGGCG CGCGCCTGTA ATCCCAGCTA NTCGGGAGGC 120
TGAGGCAGGN GAATCGCTTG AACCCGGGAG GTGGAGGTTA CAGTGAGCCA AGATTGCACC 180
ACTGCACTCC GGCCTGGGCA NCATNGCGAG ACTCTGTCTC AGNNAGGAGG GGGGGGTTNN 240
NNTANTNN 248

SEQ ID NO:5538

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06585

SEQUENCE DESCRIPTION:

GATCCTGAAA GAGGACAAAC TACATTGCCT TTTAGACCTN TGA CTCAAGA AGAAGATGAT 60
GACCAAAGGT GATTGTAAAC TTAACATGCC TTNTCCTGAT NTTGAAGGAT TTGTGAAGGG 120
AAAAAAATTC TNGGCTCTTT GTATATAATA AAATGAGACT ANANGCATTC TNNA AAAAAA 180
AAAAGATTAA NT TTAGAN 198

SEQ ID NO:5539

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06586

SEQUENCE DESCRIPTION:

GATCCCCACA CTTACTCTAC CCTCTNGGCA AATTGGCATT CCGGTGGTGG GTTTTGTNTC 60
CTTTAACACA TTAAATAAAT NAGTATATAG GATGTGAGGG GAGGGGTGAG ANCAACTAGC 120
TG TAGCATGT NTAGGCTATA TACTTTACCA NTTGACTTCT TTCCTGTTTT TTTTNA AAAAA 180
NAAAAAAN 188

SEQ ID NO:5540

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06587

SEQUENCE DESCRIPTION:

GATCTGGGTG TGCTCTATGG GGAGTNCTGA CGTCAAANAG CAAATGTCTA TAAGGGGCCC 60

TTTTAAATN AACATTTTCC TCATTGAGCA AGCNTGGATT CTCTAATGTA GAAATCAAGC 120
CATCTTNATA ATTNCACN 138

SEQ ID NO:5541

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06588

SEQUENCE DESCRIPTION:

GATCCTCCCA CCTCAGCCTG CTGAGTAGCT GGGTCTACAG GTGCACACCA CCATGCCTGG 60
CTAAAGGCAT GTCTGCATTT ATGCGAGGTG TGTTGACCGG GTGGGGAGGG AGCTAGGACT 120
GAGATTGCGC TGTNTAAAT GCACAAAAAG GGTTCCTAA GCAAATTGAT ATTTGAACTA 180
AAAGATGGAT TAGGGTGAGA GACTTAGTTT ANTCAGGAAT AGTNGCAGAG NCANCCACAN 240
CAANAANTGN ATTTCCCTGN GACAGCCGTT TGTACGTACA GCAGGGNNCT GGTTTACAGN 300
TTTCACGGAG GGNGGNTAGG GTTCTTNTAC TN 332

SEQ ID NO:5542

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06590

SEQUENCE DESCRIPTION:

GATCAAATNA TTTGACTATT GCTAGACATT TCTATACTCT GTTGTAACAC TGAGGTATCT 60
CATTTGCCCA TGTTAATTTT TTTCTAAATA AATTGACAAA AACAAA 106

SEQ ID NO:5543

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06592

SEQUENCE DESCRIPTION:

GATCACAGCC TCCAGGGCCC CCCAAATCCC AGGGAAGGAC TTGGGAGAGA ATCATGCTGT 60
TGCAINTAGA NCTTCTGCT TTGCACAGGA AAGAGTCACA CAATTAATCA ACATGTATAT 120
TTNCTCTATA CATAGAGCTC TATTTCTCTA CGGTTTTATA NAGGCCTTGG GGNTCCAACC 180
AGGCAGTAAG ANGTGCTTCT GAACCGCAAG GGGCGNACGA CTGGAAGTAA AATAGTTTGT 240
TTTTNCANT TCGNGGNNAG GGGNNGGN 268

SEQ ID NO:5544

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06593

SEQUENCE DESCRIPTION:

GATCCAATTA ACAAATTCTG CACTGTGGCA ACTNAACGAN ATTATGCTTT GGACAGCTTT 60
ATGTGTGAAT GTAAGACAT ATTCTNAAGA AATGCTGTAA CTTTATCCCA TATANCTTCA 120

TANGAATTTC TCTATAGGCT TGGNATTTGC AATAAAAATA GAGGATATGT TGGCAAA 177

SEQ ID NO:5545

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06594

SEQUENCE DESCRIPTION:

GATCANACAG CCTACANCCA GCCCCGAGTG TGCATCANGG TAAAAGAGCT GAGGGCTCTC 60
TNCAGGGAGC AGCCCATTTA GGTCTCTGTN GTTGTGTGTA GGGAN 105

SEQ ID NO:5546

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06595

SEQUENCE DESCRIPTION:

GATCATATNA GACGAGNAAG AGGAAGACCT AAAAGTGCAT CTGCCAAAAA ACATGAGGAA 60
GAAAGTGAGA AACAGGAAAA GGAAATTNAC ATCTATGCTA ACCTGTCTGA TGAAAAGNCT 120
TTCGTGTTTT CAGTCGCCTT NGCAGCNNN 149

SEQ ID NO:5547

LENGTH:411

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06596

SEQUENCE DESCRIPTION:

GATCAGTGTG AGTCCTGAAG CACTTTNAGN GCTGTGNGAA CGACATCCAC TTTGGGTTTC 60
ATTGTTTTGT AAGCAGAGGA GCTGTCAGTC ACTCGTGCTT GTCGGTGGCC TCTGAGCCAT 120
GGTGTGAGT GAAGAGTAGT TCTTGTGTTGT TACAACCTTT GTGAGTCAGC CATGCCCACA 180
AAGCGTGCTG TGTTTTAGTC CTGGTAGGAA TATTTATNAG AGTTCACACT ATGTAAAACC 240
CAACNGCTTC ANCTATTGCC CTTTCAACAG TTTTGCCACT GACCGGATAG AACCGGTTTC 300
AGTCTCTGGA TGGGTGTGTT TGGTGGGTTT GTAACCATTG ACGGGTTTAA ANCCATGGGT 360
TTNAAGATTT GGCCCAAATA ACCAGNAATT TTGTTCCGGG GAGGGGGTTN N 411

SEQ ID NO:5548

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06597

SEQUENCE DESCRIPTION:

GATCATAAAA GGCTATTATC TATNCTGGGG AACGATTATA ACTTAAATAA TTATTTTAAT 60
AAAAATACTA AGCTNNAAA 79

SEQ ID NO:5549

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06599

SEQUENCE DESCRIPTION:

GATCATCCTG CAAGTGCTCT NGTGCCTAGG ATTCATCTTT CTTTTCACCG TAGGCCCTGA 60
CTGGCATTNT ATTAGCAAAC TCATCACTAG TCGTNGTNCT NN 102

SEQ ID NO:5550

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06600

SEQUENCE DESCRIPTION:

GATCAAAACG ACGAAGAAAN GNCNCANAGA CTCAAATAAG GACAGAGTGA TTTCCAATAA 60
TGTTCAATAG ATTTAGGAGC AGAAATGCAA GGGGCTGCAT GACCTACCAG GACAGANCTT 120
TCCCAATTA CAGGGTGACT CACAGCCGCA TTGGTGACTC ACNNNN 166

SEQ ID NO:5551

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06601

SEQUENCE DESCRIPTION:

GATCTCAGTT TCAAATCTCC CCAAGCTGCC TAAATTGAAA AAGCTTGAAC TCAGTGAAAA 60
TAGATTCTTT GGAGGTCTGG ACATGTTAGC TGAAAACTT CCAAATCTCN NACATCTAAN 120
CTTAAGTGGA AATAANCTGA AAGATATCAG CACCTTGGA CTTTGAAAA AGTTAGANTG 180
TCTGANAAGC CTGGNCCTCT TTANNTGTGA GGTNCCAN 219

SEQ ID NO:5552

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06602

SEQUENCE DESCRIPTION:

GATCTCTTNG CGACAGTACC AAGCACGGTT CTCTACACAG GTGACTNAAG TTGCCTCTGT 60
GTTGGCTGGC ATCCCTGAGT CCCCTNCGGG CTCCTATGGA NCNN 104

SEQ ID NO:5553

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06603

SEQUENCE DESCRIPTION:

GATCATCTGA GCCTCAGGAG GTTGAGGCTG NAGTGAGCTG TGACTNCGCC ACTGNACTCC 60

AGTCTGGGAC AACAGAGCAA GACCCNGTCT TAAA

94

SEQ ID NO:5554

LENGTH:78

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06604

SEQUENCE DESCRIPTION:

GATCTCCAGC TGCACAGGCC ACCGNCCCAG GGCGTGGCCG CTGTTACAGA AACAATAAAC 60

CCTGATGGGC ATGGCAAA 78

SEQ ID NO:5555

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06605

SEQUENCE DESCRIPTION:

GATCGTAACA ATGCCAAGAA GACACAAGAA TATGAGAAAG GAATTCCTAG AAAAAAGGCA 60

AAGGTTTCAA TACTAAGCT AATTTTNCT AAGTCTACTG ATACATACT CCCTACCCCA 120

TCCTCCATTA ATAAAAGANT GGTTGTTGTA TTGTATTATG AGGGAATTAA AAGTGTGATA 180

NGANANNNNN N 191

SEQ ID NO:5556

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06606

SEQUENCE DESCRIPTION:

GATCGGAGAA TTGTGTAGGC GAATAGGAAA TATCATTCGG GCTTGATGTG GGGAGGGGTG 60

TTTAAGGGGT TGGCTAGGGT ATAATTGTCT GGGTCGCCTA AA 102

SEQ ID NO:5557

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06607

SEQUENCE DESCRIPTION:

GATCTCACTT CTGTCAGATG CTCCCATCCA CTATNAATGC ACTAGGTGGG AGGAGAGGGC 60

GGCAATGACA CTGCACCTCT CCTTTCCCAC CGCATTCCTT GGAGCTCCCT AAATAAACT 120

TTTTTTAACG TGAAA 135

SEQ ID NO:5558

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06608

SEQUENCE DESCRIPTION:

GATCAAGTAA AAATGCAAAT CAATGATGCA AAGAAAACAG AAAAGAAAAA GAAGAAAAGA 60
CAGGATATTT CTGTTCATAA ATTAAAGCTG TAATATATTT NNANTATAAT GTAAATATTA 120
ATGTGTAAGC TTATATTGTG TCATTGTNCT GTTTATAAT AAAATNCTTG AGAACCTTCA 180
AA 182

SEQ ID NO:5559

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06609

SEQUENCE DESCRIPTION:

GATCTTGACC TCACGGTGTA AGAAGGGAGA GGATGGTTTC TCTTCTGCCC TCTCCCATGG 60
TGCCCGTGCC TCTNTGCTGT GTATGTGAAC CACCCACGTG AGGGAATAAA CCTGGCACTA 120
GGAAA 125

SEQ ID NO:5560

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06610

SEQUENCE DESCRIPTION:

GATCTTTTTA GATACAATCC TTATTTAAAA AGGAGAAGAT AACTGAGGAT TTAAAAAGA 60
AGCCATGGAA AACTTCCTA GTAAGCATCT ACTTCAGGCC AACAAGGTTA TATGAATATA 120
TAGTGTATAG AAGCGATTTA AGTTACAATG TTTTATGGCC TAAATTTATT AAATAAAATG 180
CACAAAACCTT TGAAA 195

SEQ ID NO:5561

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06611

SEQUENCE DESCRIPTION:

GATCTTGTGC TCAACATGAT NCNTTAATAG AAGTTTTATN TTTNCGTGCA CTCTGCTAAT 60
CATGTGGGTG AGCCAGTGGA ACAGCGGGAG ACCTGTGCTA GTTTTACAGA TTTCTCCTA 120
AATNCGCGG N 131

SEQ ID NO:5562

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06612

SEQUENCE DESCRIPTION:

GATCTAATAG CTGAACTGAT TCAAACTGTA ATAAGCTCAT CAATTCANT TCTATGAAAA 60

TGTGCTCTGT TGTCACAGGA TGTTTCTGTT GGTNTTNTTC ATTCCTGGG AATTGGTAAA 120
CATCATGTTC CNGATGATAA CCCAGTAGCA AAANCATTG TNCTGTGTGG TACAAGCCTT 180
NGGGACTGNN AAANAN 196

SEQ ID NO:5563

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06613

SEQUENCE DESCRIPTION:

GATCCCATAA TATAAATCAT ATCCTTTATA TTNAGAATA TCTCAAATGT ATTCCTTTTT 60
TGTATGGTGG GTTTGCCTAG GGACGTGTAA CTACAGGCTT TACTAAGCC AAGGAAAAAG 120
AGAATTTTNC TTTTCATCTT ACAAATTCCA GATATCTACA AANGNTGTGA AAGCACTAAA 180
AGNGNNGNTT TTAAGCAGTA CTTTACCTGT TTTTCCTTTA GCAAACCAGG TTATGTGGTG 240
TAAAGGTTTG TNATACGTGC CACAATATAG CATATAAATG TTATGCCATC ATTCCTTCTC 300
TTGTTAN 307

SEQ ID NO:5564

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06614

SEQUENCE DESCRIPTION:

GATCTATACA TGAACAGCAG AATGTATAAG CTAGCATTTA CTAGCATGTC TCTNATACTT 60
TTGTNCATTT CTGTTAATCG TCATTTCTGT CCCCTCTGCA TGGAATTNA TACTTGTCTA 120
GGGTAAGAGT TTGTAGACTC TTTCAGCAGA ACAGATTTTA ATAACCAATT TATNTGTTTT 180
ATTTTAAA 188

SEQ ID NO:5565

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06615

SEQUENCE DESCRIPTION:

GATCAGCACA TCCAAAAACA CCAAGACAAA CATCCATGTG GAGCAGAAACC TNTCCTGCCT 60
CGGGAGTTCT GACCAGGTTC CCCAGCAGGG TGTTAAGCCT CTGTNTCTGG CCCTACCAGC 120
ATNCGGGTTC CACTTTTCCT AGGAGAGNGT GGAGATGGGN NGACAGGGAA AGGNNGGN 178

SEQ ID NO:5566

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06616

SEQUENCE DESCRIPTION:

GATCTATCAT TTTAATTGAT TCTGAAGCTT GTATTAAAAA CTAGGCAATA NCATCATGGG 60

ATACATAGGA GANGGCACAT TTTACAATCA TNCATTNTGG CCNN

104

SEQ ID NO:5567

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06617

SEQUENCE DESCRIPTION:

GATCTGCTGA CAAAACCTGG GAATTTGGGT TGTGTATGCG AATNTTTCAG TGCCTCAAAC 60

AAATNTGTAT TTAACCTATG TAAAAGATAA GTCTGGAAAT AAATGTCTGT TTATTTTGT 120

ACTATTTAAA 130

SEQ ID NO:5568

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06618

SEQUENCE DESCRIPTION:

GATCATTTAA CATTCTGTGT ATGTAACAAA ATATCACATG CATAAATATT ATGTATCAAT 60

AAAATTTTTT AATGGGCAAA 80

SEQ ID NO:5569

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06619

SEQUENCE DESCRIPTION:

GATCCGGTCA CTGCACTCCA GCCTNGGAGA CTACAGCAAG ACTCTNTCTC CAGTTAAA 58

SEQ ID NO:5570

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06620

SEQUENCE DESCRIPTION:

GATCTGAGGG GTGGTGCCTA CTTCCACTGT AAGAAAGAAT CTNGGTGGAT TTGTGTNTCA 60

AATCANGATA AGAGAAGCCT GTTTAAAGGA GCAGATGCCA TCTNCTGNCT TCCTCAAGGA 120

GCCAGTTAAA AAACCAGAGC ATTCCTTTN ATTGAAAAAT AAAATTAGTT TGTTATCAAA 180

ANNNGGTN 188

SEQ ID NO:5571

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06621

SEQUENCE DESCRIPTION:

GATCATAAAC CGTTGCGGGA CAGAAGTTAG ATATGTGATT GATTATNATG ATGGTGGTGA 60
 AGTCAACAAG GACTACCAGT TCACCATCCT GGACGTCCGT CCTGCCTTAG ATTCACTTTC 120
 GGCAGTATGG GACAGAATGA AAGTCGCTTG GTGGCGTTGG ACCTCGTAAA GCACTGTTTC 180
 AGATGGAAAA NTATAANCTA TTTTNTCTG AGCGATACAT TAACTATTT TCCCAGAAA 240

SEQ ID NO:5572

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06623

SEQUENCE DESCRIPTION:

GATCCTCATC TTCCCCAAAT ACTCGTTCCC AAAATTGACG AGCCTGACAA TGTGCATGCC 60
 AGGCAAGGCT CTTGGGGTTC CCCTAAAACA CTTCTCTTT TAAGCCTACC ACTCACTCAT 120
 CATGAATATA GTCCATTGTC CCAGGGTGTA AAACCCTCTA TAGTGTTAAA TAAAAGANTG 180
 ATTGGGGAAC ATTGAAA 197

SEQ ID NO:5573

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06624

SEQUENCE DESCRIPTION:

GATCTGGCTC AGTCTACTAT GGGCAGGGCC CCCACCAAG CTGAGCCGAA TGGAGACAGC 60
 TGAGCTGAGG CCTGACTTTT TCAATAAAAC ATTGTGTAGT TCTGGGAAA 109

SEQ ID NO:5574

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06625

SEQUENCE DESCRIPTION:

GATCTGAGCT GATGACTTGT GAGAGAAAAA GGGAACAGAG TAAAGCCATG GAAGCCATGA 60
 ACAGTAAGAG ACTGCCGCCT GGCATGGTTT CTTCTTCTGC AGAAGATGAA ACTGAGGAGA 120
 AACAAGACAA CATCCTTCAT ACCAGGAATG GTCAAGATAA TGCAAGAAGA GNGNAGCTTT 180
 CAAACAANTC AGNAGGCAGT CAACAAACAG NAAGGGGGNC ATTCCTTCCC TGGCAGTTAC 240
 TCATANCTGA AATTGCTTAT TGTGTACACC GGGGCTTGTA CTTGGGGNAT TTAATANNAT 300
 TGCTCATTNC CAAGCTCCNA ANNNAANTTA TTN 333

SEQ ID NO:5575

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06626

SEQUENCE DESCRIPTION:

GATCGATTGC AGTCAGAGCC TGAAAGTATC CGTAAATGGA GAGAAGAACA AATGGAACGC 60
 TTGGAAGCCC TTGATGCCAA TNNTNGGAAG CAAGANGCAG AGTGGAAAGA AAAGGCAATA 120
 NNGGAGCTAG AN 132

SEQ ID NO:5576
 LENGTH:272
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06627

SEQUENCE DESCRIPTION:
 GATCTTGGCT TCTNACAGTT CTNCCTGTCC AAACCTCCATC CTGTCCCTCA GGAACGGGGG 60
 GAAAATTCTC CGAATGTTTT TGGTTTTTTG GCTGCTTGGA ATTTACTTCT GCCACCTGCT 120
 GGTCATCACT GTCCTCACTA AGTGGATTCT GGCTCCCCCG TACCTNATGG CTCAAACTAC 180
 CACTCCTAAG TCGCTATATT AAGGCTTATA TTTTGNTGGA TTACTGCTAA ATACAAAAAT 240
 NTTTGANAGG GANNGGNGNG TGNGGNGTGT NN 272

SEQ ID NO:5577
 LENGTH:133
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06628

SEQUENCE DESCRIPTION:
 GATCATCCTG TCTGGCTGCA GTGAGAGACC AACCCTAAC AAGGGCTGGG CCACAGCAGG 60
 GAGTGCAGCC CTACCTTCTT CCCTTGGCAG CTGGAGAAAT CTGGTTTCAA TATAACTCAT 120
 TTAAAAATTT AAA 133

SEQ ID NO:5578
 LENGTH:186
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06630

SEQUENCE DESCRIPTION:
 GATCCACAAA CTNCCTGACA CTACTNNCAT ATTTCCACTA AAGGAGATTC AGCTACAAAA 60
 GGAGGCCAGC CNTCGGTCTT CGTCGATGCC TGAATCAGGC ANGCCAGCTT TCCGCGTGGT 120
 GGACACCGAG TTCTAAGCCA CAGACCGAGG CCCCAGCAGN CAGCGGCTGG AGGGNTGCCA 180
 CANCEN 186

SEQ ID NO:5579
 LENGTH:136
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06631

SEQUENCE DESCRIPTION:
 GATCCACTGC CTCGGCCTCC GAAAATCTGG AATNATAGAT GTGAGCCACT GCGCCAGGCC 60
 TGTAATTTTA TGTATCTTTA TGTGATTATT TGAATGTCCC TCTCTGACTA GATTATAAAT 120

TCTAAGGATA GTGAAA

136

SEQ ID NO:5580

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06632

SEQUENCE DESCRIPTION:

GATCCCCGTT CTCAAGTGTC NCNGGGAACA TAAACNGAGA TAACATGAAA AAACCTTGACA 60
CAGAAA 66

SEQ ID NO:5581

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06633

SEQUENCE DESCRIPTION:

GATCCTTNA A GGCAGCTGCC TTATCTTATT CCTTNTTGTA TTTCCATACC TAGCCTAATA 60
CCTAGCTTAT ATAAGGGAAC AGAATAAATA AACAATAAAG AAAAGTCTTT ACAGCCTCTA 120
AA 122

SEQ ID NO:5582

LENGTH:262

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06634

SEQUENCE DESCRIPTION:

GATCCAGGGC CGTTCATGAA CCACTGGGCT GGATTNGACT GTTGAGTGTG GCAGTTAATG 60
CCCCTCAANA AATCAAAGGA TGTCTTATAA GTGTCTTCCA AAAAAAGCA AATGCTGAAA 120
TCCTATTGGC AAAGTAACT GAAATTGGCT GCTATATTN ATATAATCAT TTCTGCAANT 180
CCCANTNTT GNATACTNAT GTNGGACATG GTTANTTCTT ATTAATTTGT TGGAATTGTT 240
TATTGTTAGN AGTGCAATN GN 262

SEQ ID NO:5583

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06635

SEQUENCE DESCRIPTION:

GATCCTGGCC AGTACAAAGT CGTTGCTCTT GTTTTATCTT CTCTTACAGA GTCTCCCTCC 60
CTTTATAGAA TGTCACCAA AGAGTGCCCT CCTCCCTCT CAGCCTCCTN TNNAGCTAGC 120
CTCCCCATCT CATCACAACG CATGCTGTG ACCTTTGGTA ATCATTTACA GTGCCACACG 180
GAACCTGTA TTTTGCACAC AGCAAAACAA ACAATGTTA GCTTTATTTA TGGTATTTGA 240
TGCTGTAAAT GGAAATAAAT ATTGTTCTTT ATAAA 275

SEQ ID NO:5584

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06636

SEQUENCE DESCRIPTION:

GATCTCTCTC GCCACGGCAC CGTCAGCTCC TTTGTGGCCA AGCTTTTCAT CTTTGTGTCT 60
GCAGAGCTCT GAGCACTCGC TTCGCGTCGC GGGGTCTCCC TCCTGTTGCT TTCCTAACCC 120
TGCCCTCCGG GGCCTTAATA AAGTCTTAGC AAGCGTCCCA CACAGTGAAA 170

SEQ ID NO:5585

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06637

SEQUENCE DESCRIPTION:

GATCAGCTTT NAGAGTGGTC CTAAGCAGTA AACTGGATGA TGTTGCATTA GAAAAACATC 60
AATACTTCAT ATTTAAGTNT NAGTAGTTAC TACTGATTNG ATAATCACTT AANTN 115

SEQ ID NO:5586

LENGTH:254

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06638

SEQUENCE DESCRIPTION:

GATCCTTGTG GACTGCCACT GCTGGCTGCC TCCTCTCCAA CTCATCAGAA GAGCATTTTG 60
ACAAAGACAG AGGACTTGGA CCAGGGCATG CCCTGTTGGG GATGTTTCTG TCAGCAAGGA 120
CATGGCATGG AATCAAGTGG GCTGATGTGT TGTTATTAA ACAGTACCAA AGTGCAATTCT 180
TCAATGTATG TTTGCCTGCT TGAAGCAAGG CCCAAGTTGA GAATACAGTA AAGGNAACTC 240
ATGAAAGTGA GAAA 254

SEQ ID NO:5587

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06639

SEQUENCE DESCRIPTION:

GATCCCGCCC TGACCCAGAG GAAGCCTCTA TTTATTTATT AGCTTTTGTT TACACCGTGG 60
AATTGACCCC TTCCTCCAGG GGTCTTGGGT GGGGGAGCCC AGGGCCCCTG TGACCCCTCC 120
TTTCTTCTC CAATCCCAG TTTGTATTTA GCTGCCAAAT AAGATTCCCA TTGGNTCCCT 180
GTGTTCTCTT GGGGGTCTAG GGTGCTGTCC CCTNCNNTCT GTTTACATCT CCCCTNTACC 240
CCGCTGTATC GCATATTGNN GAGTTTNTCT TTTTGTGAAA ATAAAGTGAT GGAAACTCAA 300
A 301

SEQ ID NO:5588

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06640

SEQUENCE DESCRIPTION:

GATCAGAGAA AATACGGTAC ATGTCCCAT GGAGGATATG GCTTGGNCTT GGAACGATTC 60
TTAACGTGGA TTCTGAATAG GTATCACATC CGANACGTGT GCTTATACCC TCGATTTGTC 120
CAGCGTTGCA CGCCATAACC ATTTTCTCCA GAAGCGTGGA GGAAAGATTA TNNAAGGANC 180
AGGCTCTTCA AAAAAANNAN GNNAAN 206

SEQ ID NO:5589

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06641

SEQUENCE DESCRIPTION:

GATCTTCTTC ACACCAAGCT CATGGTTACA TNCCGTGAGG TGTCATGAAG AAAGTNCTGT 60
TCAATAAGGT TTTGTAATGT TAAA 84

SEQ ID NO:5590

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06642

SEQUENCE DESCRIPTION:

GATCTGTGGC TGGAATNGAG GGAGCGCCTG CTTCTTCTCC AGCTTGAAA AACAAATAGGA 60
GAAGGGTCAG CTCCGCGCGG GCATCATCCC TACCAGATTG AGTGTTTTGC ACGCACTTCA 120
ATCACAAAAT AAAACAGTGA GAAAGTCAAA 150

SEQ ID NO:5591

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06643

SEQUENCE DESCRIPTION:

GATCATCATA TCAAGATGAT ACCAAAAGTA TGTA AAAAGA AACCTGCATT ATTTGTAAT 60
NATTTCTTAT AGATATTTCA TGGTAAGATT AGCAGTCAAT AAAGTTACTT TTTTNCCTTT 120
AAA 123

SEQ ID NO:5592

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06645

SEQUENCE DESCRIPTION:

GATCCTGCAA ATATCTTCTT TCCAGTTTGN TATTGTCATT TGNCTTTTGA CTTTGTTCTG 60
GTATTTTTTG NTATGTAGAA ATNTTTATTT TCATGTAAGC AAATTTATGA ATCTTTGNAC 120
ACCATAAGTA TATACAATTA TGATTTGTCA ATTAAAAATA TTAGTACAAA 170

SEQ ID NO:5593

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06646

SEQUENCE DESCRIPTION:

GATCATCCGG TGAAAGAACC AGTCCCTGNG CCCCAAGGAT GCCGGGGAAA CAGGACCNTC 60
TCCTTTCCTG GAGCTGGTTT AGCTGGATAT NGGNGGNTTT N 101

SEQ ID NO:5594

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06647

SEQUENCE DESCRIPTION:

GATCTCCGTG GGAACATTTT CGTTGCTGTC GGTGCTGGCA GGAGCCTGTT TCTTCCTGGT 60
CCTGAAATAT AGAGGCCTGA TTAAATACTG GTTTCACACT CAAA 104

SEQ ID NO:5595

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06649

SEQUENCE DESCRIPTION:

GATCGTGCTG CACAACCGGA GAAGACAGAA TTACCTCTGC TCTTTTAATA TATAATGATG 60
GCTTTAAATA AANTTAGGAG AAAATGTCAA A 91

SEQ ID NO:5596

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06650

SEQUENCE DESCRIPTION:

GATCCAGAGA GTGGGGGTGA GGGGTGGGCC CTGAAGACTT TTTGTCTGTA GCTCTTGCAT 60
ATTGAGTGTA TAAACCGGC TTCTGGACCA ACCCAAGATG AATAAACTGG GGCAGAAAAT 120
TACAAA 126

SEQ ID NO:5597

LENGTH:393

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06651

SEQUENCE DESCRIPTION:

GATCCTGGTG GCCACCAATN TGTTTGGCCG GGGGATGGAC ATTGAGCGAG TCAACATCGT 60
CTTTAACTAC GACATGCCTG AGGACTCGGA CACCTACCTG CACCNNGTGG CCCGTGCGGG 120
TCGCTTTGGC ACCAAAGGCC TAGCCATCAC TTTGTGTCT GACGNGAATA ATGCCAAAAT 180
CCTCAATAAC GNCCAGGACC GGTTTGAAGT TAATGTGGCA GAACTTCCAG AGGAAATNGA 240
CATNTCCACA TACATCGAGC AGAGCCGGTA ANCACCACGT GCCAGAGCCG GNCCANCCTG 300
AGNCGACCGT ATTGTAGCTT TTAACNCCC TTNCCAGGC GACCATTTTT TGNGAAAGTT 360
NGAGGTTTGT TTNNTGGNT TTAACTTTN TTN 393

SEQ ID NO:5598

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06652

SEQUENCE DESCRIPTION:

GATCAGAAGG CTCTGGNCAA GAGAATGAAA ATNAGGATGA GGAATAATAA ACTCTTTTGG 60
GCAAGCAAA 69

SEQ ID NO:5599

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06653

SEQUENCE DESCRIPTION:

GATCTCTTTG TCCCTGAGGT GTCAGCTGCC AACAAGAAGC ATTAGAACAA ACCATGCTGG 60
GTTAATAAAT TGCCTCATTC GTAAA 85

SEQ ID NO:5600

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06654

SEQUENCE DESCRIPTION:

GATCTTGGAG TCGTGGAAGT GTCGCCCCAC CGGGTCCTGC GCCGTCAGCA CAAGCCACGC 60
TTCACCACCA AGAGGCCCAA CACCTTCTTC TAGGTGCAGG GCCCTCGTCC GGGTGTGCCC 120
CAAATAAACT CAGGAACGCC CCGGTGAAA 149

SEQ ID NO:5601

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06656

SEQUENCE DESCRIPTION:

GATCGATGTG CTCAGCCAAA TNTCCTGTTT GAAATATCAT GTTAAATTAG AATGAATTTA 60

TCTTTACCAA AAACCATGTT GCGTTCAAAG AGGTGAACAT TAAATATAG AGACAGGAAA 120

SEQ ID NO:5602

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06659

SEQUENCE DESCRIPTION:

GATCAAAACC AAAAAAATG NACCAAAGGC TTGGGTGGTG AGGGTGCTTA TCCTTTCTGT 60
TATTTGTAG ATGAAAAAAC TTTCTGGGGA CCTCTGAAT TACATGCTGT AACATATGAA 120
GTGATGTGGT TTCTATTAAC AAAATAACAC ATCCATCGGA AA 162

SEQ ID NO:5603

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06660

SEQUENCE DESCRIPTION:

GATCCTGTTC TGTAATAAAC ATATTTGCC TTGAGTAAAT TTGTTGTAAG CTAAA 56

SEQ ID NO:5604

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06661

SEQUENCE DESCRIPTION:

GATCCTTCTT GTATCTTGAA GTTTGTACT TGGGATTCTT GGAATGATAA ATGAATCATC 60
ACATTCTTCT GGTAATATT TTCTTGAAA 90

SEQ ID NO:5605

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06662

SEQUENCE DESCRIPTION:

GATCTGAAGA AGATGATGAA GTTGTGGCAA TNATTAAGGA ATTGTTAGAT ACTAGAATAC 60
GGCCAACTGT GCAGGAAGAT GGAGGGGATG TAATCTACAA AGGCTTTGAA GATGGCATTT 120
TACAGCTGNA ACTCCAGGGT TCTTGACCA GCTGCCCTAG TTCANTCATT ACTCTGAAAA 180
ATGGGAATNC NGNGCATGCT GCAGTNTTAT ATNCCGNNN 219

SEQ ID NO:5606

LENGTH:289

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06664

SEQUENCE DESCRIPTION:

GATCAACTGA ACCAGTATGC CAAAACCAGG CATCCAATTT GTAAACCAAT TATGATAAAG 60
 GACAAAATAA GCTGTTTGCC ACCTCAAAAC TTTATGAACT TCACCACCAC TAGTGTCTGT 120
 CCATGGAGTT AGAGGGGACA TCACTTAGAA GTTCTTATAG AAAGGACACA AGTTTGTTTC 180
 CTGGCTTTAC CTTGGGAAAA TGCTAGCAAC ATTATAGAAA TTTGCCTTG TTGCCTTATC 240
 TTCTTCCAAA TGTACTGTTA AATAAAAATA AAGGGTTACC CCATGCAAA 289

SEQ ID NO:5607

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06666

SEQUENCE DESCRIPTION:

GATCTGGAGC ATTTGAANCA AGTTTATAGA AGANCATGCC AAAAACTAA GCAGGACCAA 60
 GGAAGAGCTT TNAAGGCCTG AGGTCTGCGG AAGGTGGGAG GAGGCAGACG CCCTGCNTGG 120
 CCCATGGTCG GGGCGTCCAC GGCAGAGCCG GCAACAAACG GCAGTATCTN GNATTCCTTT 180
 TTTNTTTTTT NAAATTTTTA ATNCTTTGGT NTTTCN 216

SEQ ID NO:5608

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06667

SEQUENCE DESCRIPTION:

GATCAGAATT ATAACCATGG AGAATTTTTT CTTCTGAGCA TTTTAATATA CTTGAAAACA 60
 ACATTGACTT GAAAAATTTT AGAACATTTT TCAGTACCTA GTTTTATTAA ATATTACACT 120
 TGAGAGACAC TTTTAAAAA TGTGTTAATG TCAATATGAT GAGATTTTAG CCTTTCTCCA 180
 GAACTAAGGC ATTAAGAAA ATAGCAAATA TAAAAAATA AAAGTGTAC TTTTTCCTT 240
 CTTTCTTTT ACCTTTAGGT TAATATCCAG TATTATGTGT TATCCCNTTG GATAAGTATG 300
 CTTTATTTTA CCTCNGTTAA AAATTAATAT AAATGATTTC TATTCATAAA 350

SEQ ID NO:5609

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06668

SEQUENCE DESCRIPTION:

GATCCTNAAG AGAGCTGTCC CAGCACTCTG GCCACCAGGA GGGCCANATT CCCANAAAC 60
 TACCTNTTGC CCAAAGAACA TNCTCAGTAT TTGGGGCATT TCCTN 105

SEQ ID NO:5610

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06669

SEQUENCE DESCRIPTION:

GATCCCAGTG TCTGAGTGAA CTAACAGTCC TGCTTTCAGC CACCATTGTG ACAAGACACC 60
 CAGCACTGAA AGTCCCCTG CCAGGAGCAA GGGATTCTTT GGAAGCACCC GCCCTTGTG 120
 CCTTGTGGG GGAACCGGT GACGCAGTAG TGAGTGTGGA TACACCAGAG TTTGCATTGG 180
 AAGGAATGAG TGTCACGTGG GGAGGGAAGG GGCCAGTGGA CCTTTGTAA GCTTCCACT 240
 CAATAAATG AACCTGTATG GCAAA 265

SEQ ID NO:5611

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06670

SEQUENCE DESCRIPTION:

GATCCATGTT GAACAATACA TGTAGGTTCT TTTCCACGC AATGTAAGAN CATGATATAC 60
 TGTACGTTGG AAAGCATTTA CCTATTTAT ATACCTGAAT GTTCCTACTA CACAAATAAA 120
 CATATATTAA ATTCTAAA 138

SEQ ID NO:5612

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06672

SEQUENCE DESCRIPTION:

GATCTGTCAT GCCCCACCGC CACCCTACT CCCTCAACC CTCCCTCTTT CTGCCCATT 60
 CCTCCACCC CCTCACTCCC ATTCCTAGC AAAATCAGAA GATTGTGAAG AGGCCGGCTT 120
 CAACAAAATN GGATAAANAN ATAATTTTT AAAACTTAAA 160

SEQ ID NO:5613

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06673

SEQUENCE DESCRIPTION:

GATCCTATGT NCTGCTTGCA CAGAGGCCTT TGGATTTTAA CCCAGGAGNT TCGNGAGNTG 60
 AGAGCTGCCC TGTCTTNAT TGAGCCTTAG CATTTCCTC TCAGGCTTCC TCTCAAGCTC 120
 AAGGAACTCA CCCCAGATA AGAAGCTGGT GCCTCTGTC TCTCTNATT CAGAAACGGA 180
 CTTTCTNATC ATGCTTCTCT ATGGTGGGTA TGNGNNN 217

SEQ ID NO:5614

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06674

SEQUENCE DESCRIPTION:

GATCCCAGAA TTCAACCTGT ATTTATAGAT GGATAATGTA NTTAGCTAAT TTTGGTTTA 60

AATGANCTTN TTGGGTTAGC TTNCGTAAAT GNTATAATTT TTACTGTTN

109

SEQ ID NO:5615

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06675

SEQUENCE DESCRIPTION:

GATCCCCAGC TGGACTCCCC ACCCCCTGGC TTCCCCACCT CTCCAGGNGT CAAAGGTGAA 60
CCGAGTCCAG TATTAGCTGA ATGTCATTTC GTACACCACA GCTCAGTCAG CCCATGGGCT 120
TCGTGAACTT TGCTCCAACA CACTGATGTG TGGGCTTCCC ACAGCAGGAC TGA CT TCCCC 180
CTTTCTGTTG TTTGCACATN CCCCTCTTAC TGTACTGTCA ATAGATATTT TTGAGATTTA 240
TTTTTAAATA AATATTCAAC TTGCAAA 267

SEQ ID NO:5616

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06676

SEQUENCE DESCRIPTION:

GATCAATAAT ATATAAAATN TGAGTGTGGG TTTGTATCTA ATAAAGTATG CCAACACCAA 60
A 61

SEQ ID NO:5617

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06677

SEQUENCE DESCRIPTION:

GATCTTGAGG CCCAACATGC TTGACTCTGC CAAAAGTCT CCTTCCTCAG CAGGATGCAG 60
CCTATTACAC TCAGCACAGN ATCTGGCACT CTTAGGTTCC CGGTCCATTT CAAACCTCCT 120
GCAACCAACA AAAGGATAGT TCCTTAATAA TTTGTCAAGC CTACCTAGGG CACTGCTAGT 180
AGTCTTACCA TTATTCACAA ATAGGGCTGA AACATCTAAA ATTACCCAC TTAGTATTTT 240
ATATCCCTTC AACGTTCTAT CCTAAAGCTA ATGTTTCTTA GTGCTAATTA NAATCGTCAG 300
TCTATTGACA NTNTGACAAA GGGTAAGAAA 330

SEQ ID NO:5618

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06678

SEQUENCE DESCRIPTION:

GATCCCAGGN TTCTGCGGAC CGACGATACG TTAAATGTT GTTCTAGTAA ATATTCTTGA 60
ATGTATTAAT ATGGCTGAAA CAAA 84

SEQ ID NO:5619

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06679

SEQUENCE DESCRIPTION:

GATCGTGTTC TNTAGATGAA ACCATCAAGA ACCCCCGCTC GACTGTGGAT GCTCCCACAG 60
CAGCAGGCCG GGGCCGTGGT CGTGGCCGCC CCCACTGAGA GGCACCCAC CCATCACATG 120
GCTGGCTGGC TGCTGGGTGC ACTTACCCTC CTTGGCTTGG TTAATTCATT TTACAAGGAA 180
GGGGTAGTAA TTGGCCCACT CTNTTCTTAC TGGAGGCTAT TTAAATAAAA TGTAAGACTT 240
CAAA 244

SEQ ID NO:5620

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06680

SEQUENCE DESCRIPTION:

GATCTTCATT AGTCAAGNTT TAGTTATTTN GTTGGCTTTT CCATGTAGAT TTCCAAGTGA 60
CATTACATA CTTTNATTA AGAAAATTG GAGACTGTN NN 102

SEQ ID NO:5621

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06681

SEQUENCE DESCRIPTION:

GATCGGGCCC CATGTCTGTG CTGTCTAGTT TGTGTTCAAA ATGTCAGAAT AAACACAGAA 60
TAAATGTTAA A 71

SEQ ID NO:5622

LENGTH:269

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06682

SEQUENCE DESCRIPTION:

GATCTTTTAA AAAAGTTAAA GGACATCCTA GAGCCTTAAT AGTTAAGAAG NGTTAAATTA 60
TCAAGCCTAT TTGTGCATTT CCTTTNTTG AAAAAGGTAA GTTGCTGATT AAGTCTAATT 120
GGAATTGATA ATTCCATAGT CTTAGATTAN NNTGAGGATA TTTCTCCTA GATTCCTCA 180
TGTNATGCCA TGCATTTATA TATCTNACCA TTAATTCAC ACTAAGGATG CTTACCATA 240
TAATAANNNGG TGCANGNTGG AAGCAANN 269

SEQ ID NO:5623

LENGTH:375

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06683

SEQUENCE DESCRIPTION:

GATCTCCTTT TCCAGTGCTG CACACTCCTG GTTTGGAAGT TTAATGGCGT TGCAACGGAA 60
TCCTATATNC AGTTTCCTGT AATTAAATTG AAGAAAAATG CATCCAAATN AAGACTTTAT 120
TATTAACNGA CCAGATNGCA TCAGAAATCA TGTGTCTGTT ATNATTATCA GAATATGTCT 180
TAACTTTTTN GGGCAAAGTT AACACTGAAA GTTCTAGCTT AAGTGTTGAN ACTTTTGTGG 240
GGNAAAAAAN TCACTTTTGA AACTCAGACT TCAGNGTATA CCCANTAATT TAANGTTCNT 300
GTGAAATGGT TTAAATGTGT NGGACTCGTA ATGACTGTTT TANTGGTTCC AGTTTCTNCA 360
GNGTGGGTAN TTGGN 375

SEQ ID NO:5624

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06684

SEQUENCE DESCRIPTION:

GATCTGATAA CTTGAATTCA GAATATTAAG AAAATGAAGT AACTNATTTT CAAA 54

SEQ ID NO:5625

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06685

SEQUENCE DESCRIPTION:

GATCTGTTTT TATAAAGTGC TCCATGATTC TCTGAAAACA GTATACTATG TATCTAATTT 60
TTGGATACAG GATGGACATA CGTACTCAAA CTGTGTTTTT CAATTTGTAC TGTATTTGTT 120
TCTCTCGACC TGACTTAGTG ATAGAGGTAT ATTAAAGTNT TCCACTAGCA TGGTAGATTA 180
AA 182

SEQ ID NO:5626

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06686

SEQUENCE DESCRIPTION:

GATCCTATGG NTTTTCCCGG CTGGTTGCCA CTACTGTACA ACATTCAGTG CCCACATCCA 60
TCTNTGCCAT TAAGCTTTTT TGAGACATGA GAGATGCCTC TNCCCTGCTG TATGACATGC 120
ATTTGGGAAG TTGGAAGAA ATGACAAANT CAGGGAGAAA ACATCCAAGC TTCTTACCTG 180
TAGATAGANT CAGCCCTCAN TTGGTGCTTA TNACCAGTTA TTCANGAACA ATAACANCA 240
CAAANTTAGT AGACATCCAA GAGGCACATA TTAGGGCCAA AGATAGCATC ANCTGTNTTT 300
GAGGGANCTG TAGTTTTGCG CATTTTNATG NCATTTTAT AAAGGTACTG TNATTNTTTC 360
ATTGANN 367

SEQ ID NO:5627

LENGTH:336

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06687

SEQUENCE DESCRIPTION:

GATCTAGTTT GACTTTCTAG TTAGTGGTGT TTTGAAGAGG GTATTTTATT GTTTTTTAAA 60
AAAAGGTTCT TAAACATTAT TTGAAATAGT TAATATAAAT NCATAATTNC NTTTCCCCTG 120
TTTATTGTAA TGTATTCTAA ATTAATGCAG AACCATATGG AAAATTTTCAT TAAAATCTAT 180
CCCCAAATGT NCTTTCTGTA TCCTNCCTTC TACCTATNAT CCTGATTTTC AAAAATGCAG 240
TTAATGTACC ATTTNANNTG CTTGATGAAG GGAGCTCTAT TGCCNTTANC AGNAATTGTN 300
GCTAAGGTAA TTCCNAATAG AAAGCTGCTT ATTNNN 336

SEQ ID NO:5628

LENGTH:364

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06688

SEQUENCE DESCRIPTION:

GATCTTCTTG ACCTTCTCCA TCATCGCCAT CCTTTCCCAA AGGCCAAGGA AGTGACCTGC 60
CTGCTGGCAT TGGCCAGACC ACAGCAGCAC CTCCTCCATG CAGGCCTTAA CTTTCCCCTG 120
GTCAATGCAG TTTTATCAG CTTTGCTTTG GATAGGACCT CCAAGGACTA AGGCCTCCAG 180
CCCCATGTNT GACCCTTGTN ATCTCTCTGC CCCACATAAT TCTGTTACTT TGCTATGTGC 240
TCCTAATGTA TCTAGTGTGT CCTGTGACAA CACTCATCAN ACTTCAGTGN AAATCACTTG 300
GTTTTAATTG ACTGTNTTNT CCTATAGACT GTAAGGNTCC ATGAGGGCAG GGCACATGTT 360
GGTN 364

SEQ ID NO:5629

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06689

SEQUENCE DESCRIPTION:

GATCCCGTGT GCCACCAGGA GGGAGTGGCA GCTATAGTCT GGCACCAAAG TCCAGGACAC 60
CCAGTGGGGT GGAGTCGGAG CCACTGGTCC TGCTGCTGGC TGCCTCTCTG CTCCACCTTG 120
TGACCCAGGG TGGGGACAGG GGCTGGCCCA GGGCTGCAAT GCAGCATGTT GCCCTGGCAC 180
CTGTGGCCAG TACTCGGGAC AGACTAAGGG CGCTTGTCCT ATCCTGGACT TTTCTCTCA 240
TGTCTTTGCT GCAGAACTGA AGAGACTAGG CGCTGGGGCT CAGTTTCCCT CTTAAGCTAA 300
GACTGATGTC AGAGGCCCCA TGGCGAGGCC CCTTTGGGCC ACTTACN 347

SEQ ID NO:5630

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06690

SEQUENCE DESCRIPTION:

GATCAAGGTG TGAATAACTG AAGAAAATAA CTTGCTGGCT ATATAGGAAA ATGCTGTGGA 60
 AATGAACTGT GTATATACTT CTGGGAGGAA CAAATTTAAT CATTCTCCT GTTAAGCACT 120
 AATCAGTATA GTGCAACTCC TGGTTCTGTN CTGTATTTNA TATGCAACAT ATATGCTTTA 180
 ATATTTNNNT GTTGTNCAAT TAATATTTNC AATTGTTTA ACCACTTTGC TGCTAAGATT 240
 TTNCCGTCCC ATTCCCATT NTCCCTTTAC AATNNTAAAC ANGTTCTTC ATTAAANNCT 300
 ATGGTGATGA AAAANAAN 318

SEQ ID NO:5631

LENGTH:185

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06691

SEQUENCE DESCRIPTION:

GATCTGTGGG TGTTTTTAAA AAAACTCAAC CTATCTGGTG TTTTATTTTA ATGGATAAAA 60
 ATGTAATTTT CTAAGGTAG CAACTTATTT CCAAATTAAT ATAGATGANA AATAGATNCC 120
 ANTTNGACTA AATTGAAAGC TTTNNTCCT ATATTNCAAT AGCCTTTGAG AATATTGNTN 180
 AGTGN 185

SEQ ID NO:5632

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06692

SEQUENCE DESCRIPTION:

GATCAAATAA ACTCANTTTT TTATGGTTAC TGTA AAAAGA CTGTNTAAGN CAGCTCAGCA 60
 CCATGCTTCT NGTAAAAGCA GCTTCANTTA TCCACTGGGG TTATCTTTTG ACAACTGGCC 120
 ATTATCTGNN 130

SEQ ID NO:5633

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06693

SEQUENCE DESCRIPTION:

GATCTTAACA AGCTTAAAAA AGAATTTTAT GACCAGAATC CAACAAGAGC TCTATTTTGG 60
 AATTGTGCCC AAGTTGGTGA TGTTTACTCT AAAATTAATA ATAAACTAC TTGTAAGCAC 120
 AAA 123

SEQ ID NO:5634

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06694

SEQUENCE DESCRIPTION:

GATCTGAACT GCCTCCTCCT TTCTCTGGCC TCTNCCCCCT TCCCTCTTCT CTTAGCTAG 60

GCTAGCTGGT TTGGAGTAGA ATGGCAACTA ATTCTAATTT TAATTTATTA AATATTTGGG 120
GTTTTGGTTT TAAAGCCAGA ATTACGGCTA GCACCTAGCA TTTCAGCAGA GGGACCATTT 180
TAGACCAAAA TGTACTGTTA ATGGGTTTTT TTTTAAAATT AAAAGATTAA ATAAA 235

SEQ ID NO:5635

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06696

SEQUENCE DESCRIPTION:

GATCACGCTA CTGCACTCCA GTCTGGGCAA CAGAGCAAAA TCCTATCTCA AAAAATATAT 60
ATATATTATC CAGCCCCAAA TGTTTATGGG GTTGTTATTG ATGAACCCTG CATTAAACAA 120
TCCCACAGTC GGTGCTGCGG TGAGCCGTGA TGGGTACCAC TNCATTCCAG CCTGGGTGAC 180
AGANTGAGAC CCTGTCTNNA AAAAAAANGT NNAANTTGTT TTCCCNATAT TTTGGNNGGA 240
TTNGTGGGGN 250

SEQ ID NO:5636

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06697

SEQUENCE DESCRIPTION:

GATCTTGTGT ATTTTGTGCC ATATCCAATG TTATATGAAC TAATTGTATT GTTTTATACT 60
GTGACCACAA ATATTATGCA ATGCACCATT TGTTTTTTAT TTCATTAAAG GAAGTTTAAT 120
TTAAATTGAA A 131

SEQ ID NO:5637

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06698

SEQUENCE DESCRIPTION:

GATCTTAATG GGCAGGGTGA AGAAAGTTAT TTAAAATAAA GTTACCTATT CTAATAAA 58

SEQ ID NO:5638

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06699

SEQUENCE DESCRIPTION:

GATCAGAGTG ATGTGTTATG CAGAGAATTA AAGGGTGATG TGATAAAGTG ATTGGGTCGT 60
GCTTTATGTT GGCAAAAAAA ATCTGGAGTA TAAGAAGTTG CTGACTTGGG TGATTTGGAA 120
GAGATTGGGA GACTGGGGGG ATTCAGANCT GAAGGANCAG GCTATAGGCT GTAAGGCAAA 180
ANTATACTTG CNATGTTCAA ATTACTNAGA GGNTTNTACC NNCNTGCTTT TCTTTAAAN 240
ATAAACNTTN 250

SEQ ID NO:5639

LENGTH:354

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06700

SEQUENCE DESCRIPTION:

GATCTTGTTA TTGATTAACC ATTTCTTAT GCCTTGCTAT TGACATATTC ATGCTCTTTC 60
TACGTCTAGT GGCTGAAAAT NTTTGCATTT GTTCATTTGA CTAATGGTGT GATTTTNGTT 120
TCTATATTAT NAGACCTGTA ATGTTTTAAA ATGTATTNA TTAAATTTGG ACTGGATGTA 180
TGTCTCTAGC AATACGAGGT ACTTCTAAA CTATTAAGGG AGGGGTTGTA TCCTCATGTT 240
GAGATAAGAT GATGGTCGTT TAANTTTNGC AATTTTTTTT GGCCTGCAGG GATATTTTGT 300
GTTTATGTGT CCAAANNNG ANTAANTTGG CATTCTGTG CCAAANGTTG TTNN 354

SEQ ID NO:5640

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06701

SEQUENCE DESCRIPTION:

GATCTGCATT CTGTAAAAGA GGTACTTTCC CATGATGTAG GCATGAAGTG GTGCCAGTAA 60
GCGTAGAGCG GAAATNTTGA CTTTAGTTAA CATTGGGTNT AGCATTCCA GTGCAGCATT 120
ATCAGTGGGC CTTTAAAAAT ACTTCGTAAG TACATTAGCT TTCACTTTGT NGTNAAATTA 180
TAGCAGACTC ATTATAGAGA ACAAGTTTGC CTTGATTNN TTTAAATGA CTTCTGCTAA 240
GCACCCAGAA GATAAANTTG ACATATTTT NTAAATNTAAG CATACTTTT TNGTACATNG 300
TGTNCATTCT TGANTAANAT GNGGTTCTGT GTTGGCTTGT NN 342

SEQ ID NO:5641

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06702

SEQUENCE DESCRIPTION:

GATCCAGTAT AATTNCAGAT TCTNGTGTCC CATCGAAGTT TCTAGCAAGA GGAAGTGTGT 60
CACATTTTCT TCTTGACTC ATTACTGGTC ACTGAAAACC AGAAGAAGTT GGTGAACCAT 120
CTAAAGAAGA GAAGGCTGTG GNCAAGTATC TNCGATTCAA CTNTCCAACA AAGTCCACCA 180
ATATGATGGG GTCACCGGNT TGATTATTT TTTGCTTCAA AAGCAGTGGN CTGTNTTNG 240
GGATTCAAAG NGGGNAAAGT CCANGTANTG GN 272

SEQ ID NO:5642

LENGTH:264

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06703

SEQUENCE DESCRIPTION:

01678

GATCGCAATG AATTNTNTAAA ATTACTATTT AANATATTGT TGAGATTCCA TTACCTCCAA 60
 TCAGTCTTGG GACATTAGAA CAGTGGTATA ATTAAGACTG TATGTTTAAA TTGAGAAATT 120
 TTGCACAAC TTAACAAGTA GCAGANCTAA TTGTNCACTG ATGGCTTTAA AGATGAAATA 180
 NTTCTGTGAA TNCATGANAC TGTGAGGGNC TCTNCGTGGT TGTCTAGGTT TATTTATATG 240
 CATNCTCATT AATNAAAGTN NTTN 264

SEQ ID NO:5643
 LENGTH:247
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06704

SEQUENCE DESCRIPTION:

GATCTTTTTT ATTTTATAC ACATGACAAG ATTTTACATC AAGAATAGTC AGTTAAATAG 60
 TACAAATTTA CATTCATGAG GAATGTAAA AAAAATTCAA CTAAAAAACC CACTTTTCC 120
 TGTGACCCAT AATCCCACAT TTTACAGTGC AGGGGAGAAG GGGATTAGGG GGCATNCAAA 180
 ACAAGTCTCT CCCAAAAAGA AAAATGCAGG CATGCAGGGN CGGCGTAATC ANTNNCCNGN 240
 NNNNNNN 247

SEQ ID NO:5644
 LENGTH:318
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06705

SEQUENCE DESCRIPTION:

GATCCATACA GGTGTGTGT CATCTGTCCT CTTGAGGTTT AGGAGATTCT AAATTGAATA 60
 TTCCACGGTT TGGGACAGCA TNCGGAAGTT TTCCCTATNA CTTTATATTT TGTATTATGT 120
 CAAATGTTAT GGCAGGGCCC AAATAGCATA GCCACAAGTT TGGTTTATGT GGGCATAAAA 180
 TTCTAACCAA ACCCCAGACA TAGGGAGTCA TTTGGAGAAA GCCTGTATGT GGTGTTTTAA 240
 CCTAATAAAG TTGATGAGAG AGAAGGGGAG AGGAAGCGAA CATAAAGCGG GTCAAGTGTA 300
 GTGCATCTTT TGTATTGN 318

SEQ ID NO:5645
 LENGTH:197
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06706

SEQUENCE DESCRIPTION:

GATCTTTTGA CATACTCACT TTGAGTGGCA TATGCCAGG AAAATATTTA AAAGAAAGAA 60
 AAGCTATTTT TACAAAGTTT TCTAGCAGTT CCACTCAGAT AACTTTAAGG GGGAAAAAAG 120
 CCCAACGNTT GGNNATGGTT AAGTAAATTT NGGTGTATTG CTAGTGCTAT CNCNGANTGT 180
 GTATGATGGC CNTNCAN 197

SEQ ID NO:5646
 LENGTH:210
 TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06707

SEQUENCE DESCRIPTION:

GATCCCCGA ATAAC TTTT TCAATCAAGT TGAAAAACCA AACAGCTATG TAAAGTCCCC 60
AGGAGAGCTC TTTTCCCTT ATTNCTCAT TTNTTTGTT ATAACTGTT TAAATAGTTC 120
AAATGGTTGT NCATGCCTAG GGGATGAAAC CTATGTAATA GAAATGTACT GTTTTATGAA 180
TAAGGAGTAA AATTNTTTTA AAAAATTAAA 210

SEQ ID NO:5647

LENGTH:372

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06709

SEQUENCE DESCRIPTION:

GATCTGAAAC AGAAACCAACC CTCCGGAACC GCCCAAGAAA GGNCTGCTCC ANANACTCTT 60
CAAGCGGCAG CATCAGAACA ATCCAAGAG TTCGCCAGC TCCAAGACCA GTTTTAACCA 120
CCACATAAAC TCAAACCATG TCAGCTCGAA CTCCACCGGA AGCAGCTAGT TTCGGCTCTG 180
GCCTCCAAGT CCACAGTGGA ACCAGCCCAG ACCCTTCTCC TTAGAAGTGG AAGTAGTGGA 240
GCCCCTGCTC TGGTGGGGCT GCCAGGGGAG ACCCCGGGAG CCGGGGAAGG AAGGCCGTCC 300
ATCCCGTCGA CGTAGAACCT CGNGGTTTTT TCAAAGNAAT TTCCACTNNG GTCTGTTTTT 360
NCGAGGGGGG NN 372

SEQ ID NO:5648

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06710

SEQUENCE DESCRIPTION:

GATCCTTGGT ACCCCTAAAA AGATTGCCAA TTTTTTTCAT CTTTGCCATA TGGAGGACTG 60
TGACAGACTT TGGACAGTGG CCTCTTGAGT TCCTCTGCAG TTTTGACATT TAGGATTTTG 120
TGTCTTTTAA ACTGGAAAAT CTTCTAGCAT GTTGGGTTGT TACAGAGTAT ATTTTGTCT 180
GCAGCTGTTT GTTGCCCCAT TCCTAAGAGG AGTTTATCCA TCCNGAAA 228

SEQ ID NO:5649

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06711

SEQUENCE DESCRIPTION:

GATCAAAACA AGATTTTCCC AGTAAGAATA TACTGGGACA TAACAAATGA AAATATTTAT 60
ACCAAAATAC CAAAAGTNAT TCACCTCTTT AAAATATCCT ACTATAGTCT AATTAGTAGC 120
TTGTNCAAGA CCAAGTAACC ATTTTNNCT GCNCTTTTGA NTGATGATTA GAAATTCAAA 180
CAANGTATTT NNN 193

SEQ ID NO:5650

01680

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06712

SEQUENCE DESCRIPTION:

```
GATCCAAGTG CGGAANTCAC AGAAGGAACG GATTACAATT CTCCTNCAGN TAGGGAACCC 60
CTAAGNCCAC AGAAGATAAG GAGGAAACAA TACAGAACT AGAGACCCTG GAGAAGAAGG 120
AAGAAGAAGT AACTTCAGAG GAGGATGAGG AGAAAGAAGA AGAAGNAGAG ANGNNN 176
```

SEQ ID NO:5651

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06713

SEQUENCE DESCRIPTION:

```
GATCAAGTTT TTAAATTGT NCTNTTATTG TTTTAAATTA AGAACTTTT GAACTAAAAC 60
CAGAACTCT GCCATAGTTC ATTGATTTTA ACATGAAACA TTTATTTACA AGATGATATC 120
AAGATTACTT TTCACAAAAT AGGCACATTA TATCANCECT TTGCNCTGCT TTGTAAATTT 180
NCCATCCAGG ATTTTGGGGT GGTATTCATG TGAAATTAAA GCAGATTCTC TAGCAGTTTC 240
CTATAGCTAC AGTTTNNNN NTNCCCTGG NTN 273
```

SEQ ID NO:5652

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06714

SEQUENCE DESCRIPTION:

```
GATCCTGTGT GGAGAGGGAA TGTGAAATTA ACATCATTTT TTTTGGGAG AGACTTGTTT 60
TGGATGCCCC CTAATCCCCT TCTCCCCTGC ACTGTAAAAT GTGGGATTAT GGGTCACAGG 120
AAAAAGTGGG TTTTAAAGTT GAATTTTTTT TAACATTCCT CATGAATGTA AATTGTNCT 180
ATTTAACTGA CTATNCTTGA TGTAAAANCT TGTCATGTGT ATAAAAATAA A 231
```

SEQ ID NO:5653

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06715

SEQUENCE DESCRIPTION:

```
GATCAACATG GTGGAACAAA ATGATAAAGA NCAGAAAACA TTTCAATATA TTAATAATA 60
CTTTTCCAA TATAATCCT AAAATTCCTA TAACATAGTA TTTTACAGTT TTATGAAGCT 120
TTCTATTGTG ACTTTTATGG AATTAAGAGA TGAAGAAGAT GAGATATTTT AGCATTATA 180
TTTTTCAAAA TTATATGTAT ACTTAANANT AANGTANCTT TATGCAAA 228
```

SEQ ID NO:5654

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06716

SEQUENCE DESCRIPTION:

GATCACAACGT GTGAAAAAAA ACTGCACACG CAAAAGACTA CAGGGAAATA TGTAATTNAT 60
TATNTTGTTC TCTCTCAGTG ATAAGATGGG GTGGTTTCTT CTTTGTACTT TTGTATTAAT 120
TTCTTACGGT GTTTGTATTA CTTTATAAT CAAGAACTTT GTTTTAAAAA ATAAATCAGA 180
AA 182

SEQ ID NO:5655

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06717

SEQUENCE DESCRIPTION:

GATCGTAGCT AGTTTGTATT GTCTGTCAA TTGTACAGAC TTTTAAAAA AAACAACCAC 60
CAGTGAAATG TGTGTGTATA CAATAAACTG AAA 93

SEQ ID NO:5656

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06718

SEQUENCE DESCRIPTION:

GATCAACATT TATGACCTAA GTCAGGTAAT ATACCTGGTT TACTTCTTTA GCATTTTNAT 60
GCAGACAGTC TGTATGCAC TGTGGTTTCA GATGTGCAAT AATTTGTACA ATGGTTTATT 120
CCCAAGTATG CCTTAAGCAG AACAAATGTG TTTNCTATA TAGTTCCTTG CCTTAATAAA 180
TATGTAATAT AAATTTAAGC AAACGTCTAT TTTGTATATT TGTAAGTAC AAAGTAAAT 240
GANCATTTTG TGGAGTTTGT ATTTNGCATA CTCAAGGTGA GANTTAAGTN TTANNTAAAC 300
CTATAATATT TNNNCTGANA CNCNNGNACC N 331

SEQ ID NO:5657

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06719

SEQUENCE DESCRIPTION:

GATCAAGCCA AAAAATCCAC CAGGAANTCC TACTGACTCT CTTTNTAAAA TATAGTCATT 60
TAACNGTCAA AAGAGTCCCC AATAATGTCA GTNCTAAGAT TNCCCCTATT TTTTAAAAA 120
ACAAAGTAAA TGAAGACTCA AAGAGCAAGT AACTAGTCTA AATTAGATAG TCACAGGTGG 180
TAAAGCCAGA AATCTGTCTG GNCAGTCTAA CTCTATACAN CCCAGGCTTT TAANTATTAG 240
AAAGCNNNNN 250

SEQ ID NO:5658

LENGTH:409

01682

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06720

SEQUENCE DESCRIPTION:

GATCTCAGTA TCATACTGAG ACACCTCCCC TGAGCCTTAC CTACTTAAAT TGGTAACCGT 60
CCTACCAAAA TTTGTCAATT TNAATCAAGT GAGGCAAGTT GCAAGGGAGC CAGAGATACG 120
TGAAAAAAGA AAAGCAGAAA TACTGATACT TTCTAAGAAA GAAGTTGTAA TAATTNCTTT 180
GGCACATTGA CTTACTGATA TCTTTTGAAA TGCATAGATG ACTCTTGTGA ACCAANGAGA 240
GCAGTNGTGG TTNTCCCCG GCGCAATAAA AATGCCTTTG TGTATCACTT GCGGTTGCCA 300
GTCAATTCTG GTGCCAGTTG CTTTNNNTNN CCAGAGGTTT GGCCTTNATT CTTCCGAAAN 360
NAGGGTGATG ATTNTTNGAA GNTGGGGTTT TCCTNACCAN ATTATTNTN 409

SEQ ID NO:5659

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06721

SEQUENCE DESCRIPTION:

GATCTGGAAG AGTCAAGAGA AGAGAGCAGA AAGCAGGCTC TTGCTGCTAA AAGAAA 56

SEQ ID NO:5660

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06724

SEQUENCE DESCRIPTION:

GATCTAAAGA TGATGGAAAA CATCAGCTAC ATTAAATACT CATAAGCAAA ATAAAGGCTG 60
GCCTGTAAA 69

SEQ ID NO:5661

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06725

SEQUENCE DESCRIPTION:

GATCCAAAGG GAAGGGACTA TGCAAGGGCA TTTATAAACG NTGGACAAGG GTTCATTATA 60
GAACACCANT GTNATGGACT ATCCCAAGCA TGTACCACTG TGTCTCATGC ATGGTAAAGG 120
TCCCATAAAT GTTATTGCTC TCTTGCAGTA TAGTAGTAAT AGTAGTGGTA GCTGNTTTAG 180
GAGTAAAAAC AGCNAAAAAN AGANNNNN 208

SEQ ID NO:5662

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06726

SEQUENCE DESCRIPTION:

GATCTGAAAA AAAAGTTTCA CCGTTTGTTC TCTTACCTCA TTTAAGAAG CATGTGAAAA 60
 TGGGATACTA TAGACTACTG AGAATTCAG AAATTGAGAA CAATTCATA ATAAAACGGC 120
 TATATTTGAA GAGAGANTAC ATTTTATATA ANCAGGAAAA TACATTGAC ACTTTATGGA 180
 ATTTNATGAG ACTTTTGTG GGAACAGAAG GTCTTCAAAT TGTAATGT AAAGNTTGCN 240
 CTNTTNTTA NGTCTTAAAC AGGGGTGTNT TTCATTGTNT GTTTGGGTA TGGCTTTGGN 300
 ATAANTCATT NTATATNTNA NTTGAN 326

SEQ ID NO:5663

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06727

SEQUENCE DESCRIPTION:

GATCTGCACA GTTGGTTTT TGCACAAAAG TCATTTAAAA AAATCTGAGT AATTGTCAAA 60
 TATTAAGA AAGNTATTCT TCCTGGTAAG GAATACAGTT TTNAGTCAAA GTGGCCATTA 120
 CATCCNCTTT TNAATTACA TAATACAGNT ACTTGTGAAA GTTGTGTGG TGTGTATGC 180
 CAAGNNAATN CTTTTTATT GGTGCCTATA TTGTCACANT TNTNTN 227

SEQ ID NO:5664

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06728

SEQUENCE DESCRIPTION:

GATCCACCCT CCTCGGCCTC CCAAAGTGCT GAGGATTACA GGCATGAGCC ACCACAGCTG 60
 GCCCCCTTCT NTTTTATGNT TGGTTTTTNA GAAGGAATGA AGTNGGAACC AAATNAGGTA 120
 ATTTTGGGTA ATCTGTCTCT AAAATNTTAG CTAAAAACAA AGCTCTATGT AAAGTAATAA 180
 AGTATANTTN CCATATAAAT TTCAAATTC AACTGGCTTT TATGCAAAGA AACAGGTTAG 240
 GGACATCTAG GTTCCAATTC ATTCACATTC TTTGGTTCCN GGTAAAATCN GGNGGNNTAT 300
 ANCAATTTCT ANTTGGGGTT TNCN 324

SEQ ID NO:5665

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06730

SEQUENCE DESCRIPTION:

GATCCTTCCA CTTGGCCTC CCAAAGCATT GGGATTACAG GCGAGAGCAC TTGGTTGGCT 60
 AAAATATTTA TATTACCTG NCATNATTTG TTGATTTGGG GGCTAGGGAG TTCTAAAAAC 120
 AACAATAAAA AATCTTCTGT GGCTGCAAA 149

SEQ ID NO:5666

LENGTH:236

TYPE:nucleic acid

01684

TOPOLOGY:linear

CLONE:HUMGS06731

SEQUENCE DESCRIPTION:

GATCACAGTC TTGAGGTCCT CTAGCAGGGG TGAGGGAGAG CAGCGACTTC AGCTGAGTCC 60
CTGCCAGTGG TTAAGCAAAC AATGGTTTCA AAATTCAAGG TCCCCAAATG GCAGCATTTT 120
ATGTTCTGAC CTGTTTGTGT TATATAGTGG TGTTTTNNNN CCNCTTTGGA NCTCTTGNGT 180
TGTTAATAAA ATGAAATGAT TACTTTTNA TAAANTGAA AAANGTAAAA AANAAN 236

SEQ ID NO:5667

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06732

SEQUENCE DESCRIPTION:

GATCGCGCCA CTGCACTCCA ACCTGGGTGA CAGACTCTGT CTCCAGAACA AAACAAACAA 60
ACAAAAAGAT TTTATTAAAG ATATTTTGT AACTCAGTAA A 101

SEQ ID NO:5668

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06733

SEQUENCE DESCRIPTION:

GATCCATGGA CCATCTGGGT CATGGCGCCT GGTTTCAGAC AACCTGAATC AAATCTTAGG 60
GGTGGGGCTT TGGGATGTCA TTGTTCAATA GGCACCTCAG GAGATTCTGA GCACACCNNT 120
GTTTGAGAAC CACTAAAATN AGGAGTGGGA AAAAAAAAT AGGTGTTTGT TTAATTTAGA 180
GCTGAGCTGN GANGNTAATA TATTTTNNTT GTCANTGCCA TTACCAGNTA TGCACTGNNT 240
CTTTTATACC TACANTTTN 259

SEQ ID NO:5669

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06734

SEQUENCE DESCRIPTION:

GATCCTGAAG CTTACTATGC AGCCTACAAA CAGCCTTAGT AATTAAAACA TTTTATACCA 60
ATAAAATTT CAAATATTGC TAACTAATGT AGCATTAAC AACGATTGGA AACTACATNN 120
ACAACCTCAA AGCTGTTTGA TACATAGAAA TCAATTACAG CTTTAATTGA AAACATAAC 180
CATTTTGATA ATGCAACANT AAAGCATCTT CAGCCAAA 218

SEQ ID NO:5670

LENGTH:222

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06735

01685

SEQUENCE DESCRIPTION:

GATCAGATTG AGGTTATGCA TTTTGGCAA GAAAACCACG GCAATGATAT GCCCGTCTCG 60
 GTGCATTNA TCAGGAGATA CTTGATGTCG ATGTGTCATA TTAAGGTGA TGTTAACCTT 120
 GGTTAAGGTT AGTAGCTTTC AGGTTTCTCC ATTGTAAAGT TGCTATTACT TCTTAATATA 180
 ATAGGCTAGG TTGTACTGCT ATAACAAATA TACCTTAGTA AA 222

SEQ ID NO:5671

LENGTH:86

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06736

SEQUENCE DESCRIPTION:

GATCCTTGAA TGAAAAGGAA CCCTCACCAT GGGGCTTACT GTTATAATGT TTCTTCATT 60
 ACTGTTATTA AAAGATTTAT GAGAAA 86

SEQ ID NO:5672

LENGTH:391

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06737

SEQUENCE DESCRIPTION:

GATCAGAAGC TGCCAGGAAC AAGGAGAAGA CGCTCCCCTT CCTCACCTTC CCACCCCCAC 60
 ATGGCTTCTC ANTCCGGGAA AAGATACAAC TTAACTTAA ACCAAGTNTT AAGTTTGTAT 120
 TATNACATGG GATTAGATGC ACCAAAAACA ATTTCAAGTG ACTGTGGGGC ATTCTATTGC 180
 CTGAGAATGT TCAAGAGTCC TGATATGACC TGTTGTNTT ATCCTAAACA GTGAAAAATT 240
 CATCCACCAA ATATATAGGA ATAGAGGGTG ACAGNAAGAT GCTTTCTGAA AGGTATCCNA 300
 TATTTGGGGG TNTTGGGTGA CATATNCTN ATGTNGGNTT TTAANCTATA GCTCTTCANT 360
 TANNNTTACT CNATCCATTN CTTGAAAGGA N 391

SEQ ID NO:5673

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06739

SEQUENCE DESCRIPTION:

GATCCTNTGT ACATGAAATG AAAGGTGCAT CANCTTGGGG GCTGGGAAAC CTGCAGTATG 60
 GNTTACTNC GTCCCTATCA CTGGTGTGGC TGTGGGCAA CCACCTATTG CCTGACCTAC 120
 CTCACAGGGA TGTTGTGAGG GTTTGATGAG AGAATGAATG TTAATAGGAA TTGGAAAATT 180
 CAAAGCATT AACAATGTA AACAGGTAAA 210

SEQ ID NO:5674

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06740

SEQUENCE DESCRIPTION:

GATCTCAAGA AAAAGCAGGA ATTAAATAAG ACAAGGNNCA GATTAANATA CCTTTCCCAG 60
 CAGGGGAAAC AGCAAACTTA AAGGTTCTAA GGCACANGAG AGCATGGCAT ATATGACGAC 120
 CCAAAAGAGT GGCCAGATAT CCAGACATCT AGAAGGTCTA GCTAAGTNCT TAGGAAGTAG 180
 TATAANCAGA NAAGANAAAN TTGTGGCCTC TTTTTTNAAA ANN 223

SEQ ID NO:5675

LENGTH:391

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06742

SEQUENCE DESCRIPTION:

GATCATGCAC TGTTGACCAC TGAGCAATCT GTGTNACACT AGAGTTCACA GGGCATTTTA 60
 AGTGTAGACG TGAGTCCTTA AACATATTTN GNTTCTCTC TCAGGTTTTA AATGTTTCAA 120
 ATGTAATTNT TGCTCATCAG TGCAGTTATC AATGCAATTT NATATTCCTT GAGGGGAGAA 180
 AGNGGGGTCT TATTGTACAT GTCCAAGGGG GGTGATAAGA GTATTANCTG TTTAATTTAA 240
 TTGGANCAAN CCATTGTCTT AACGCAGCCA TGGTTTGANT TTGTCATCTT NGGGCTGACC 300
 GGTGCATGTA AATACAGTAT GCNCTTTGGA TGTAATCCTT NGAAATGNCA GTGTTGNATG 360
 TAGGTTATC CTTNNGTNAA CCCTTNTCTC N 391

SEQ ID NO:5676

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06743

SEQUENCE DESCRIPTION:

GATCCCTATA ACTCAAAATA ACTTGTTTGT AAAAGAAAAT TTGTTTACTT ACCCATTAGT 60
 AAGTTCCTGC ATATTCATTA TAAGATGGCA AATCAAACTT TTCTAGGATG AAGACAGCTT 120
 ATNTTNAAGT TGTATAGTCT TAGTTGGTTT AGGGTCTCAA TTTTAATTAA TAAAATNCTT 180
 GGTTTTAATT TGCTTGTCCT TTTGAATTCC NGTTTAAATA ATNTNNNAG NGNGCAAAGN 240
 GATGTTGAAG TTCAGATTAA NCTCTNCTGA N 271

SEQ ID NO:5677

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06744

SEQUENCE DESCRIPTION:

GATCCTGGAA GTAATCCGGG CACACTTACA TTTGTTGTCA ACAAGAACAA TCCTTTCATC 60
 TTCTTGGGCT TTCACATGAA CAGCCTTAAT AAAAACC GCC AGGACTCCCC AGAAAAGCAA 120
 ATGGTTCTTC ATCTTGACTT CACTTCTTCT GAAAACTGG AGCAAA 166

SEQ ID NO:5678

LENGTH:386

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06745

SEQUENCE DESCRIPTION:

GATCACAAAT TAATGTTGGG GAAAATAAAG ATTTAATATT TCTTTAAATA GAAAAAGAAT 60
TTGGTTTTCC TCGTTTAAAG GCAATGAGAA AATNATGGAA TGTTGACTGT NTTTGGCACA 120
CAGGACACGN ACCTTCATGG AAGTCCTTGC TCTGCGTGGC ATCTGTCAGC TTNACACCTT 180
TCATTCTTAT TCTTCACTTT TGCTGCTGAG CCTAGCTGTA CAAACTTNGC ACTTTCATTT 240
GCTAATATAA ATTCAGTTTT ATTNTACCAT TTTAGAGACT ACTAATGGTT AANTGTAGAA 300
GGNGNGGGGT GNACATGTTT TTATGTNGNG TGTTTNAAG GATATGTTTT NTNACCCNT 360
GTNATGGTGG CAGCTTTNTN TTTTNTN 386

SEQ ID NO:5679

LENGTH:260

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06746

SEQUENCE DESCRIPTION:

GATCCAGGAA GCGGCTGGAG ACATTCCTGA GCCTCCTGGT CCAAAACCTG GCACCTGCAG 60
AGACGCATAC CTAGAGGAAC TCTAACCCCG GTGTACCTGT ATAAACTGAA CTGTGAAACT 120
GTTTCGGTTA TCTCTGTCTT TTGAGGATGG CTTTGTCTG TTGCTGGTTA ACATTCACCT 180
TCCTCTTTTG AGGAGTATTT TTCCATTATG TATTCATAAT AATGTTAATT TCAATAAATG 240
ACATTCATGC AGCAATTAAA 260

SEQ ID NO:5680

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06747

SEQUENCE DESCRIPTION:

GATCAACATT CCAGGGTTGG TAATGTTGGA TGATGAAACA TTCATTTTTA CCTTGTGGAT 60
GCTAGTGCTG TAGAGTTCAC TGTTGTACAC AGTCTGTTTT CTATTTGTTA AGAAAAGNTA 120
CAGCATCATT GCATAATTCT TGATGGTAAT AAATTTGAAT AATCAGATTT CTTACAAACC 180
AAA 183

SEQ ID NO:5681

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06749

SEQUENCE DESCRIPTION:

GATCTCACTA TAGAGGCATC ACTAATTGGG GAAAGACAGA CTAGGTAATA GTCAGATGTN 60
ATATAGTATG TTTAANCTAT AGGATGGCAG GTNCATGANT NTTGGTTGTA TTATCCTTTA 120
TNTN 124

SEQ ID NO:5682

01688

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06750

SEQUENCE DESCRIPTION:

GATCTGAAGT TGCAGGTAA GCTTGTNTGG TCAACATTCC AGTGTGGAAA AATAATTTAA 60
ACAATCTTAT TCTCTTAATT CTTTGGCAA CAAAACTAT TAGTAATAGC TATTGGGAC 120
CAGACAAAAT CAGCTTTCAT CTATAATTCA TTGGGGATAA TGGGAGATTT AGATAATGTA 180
TCCNGATTTA AACCTACCAG TTTGTCCTAC CCCTTANGCG TTTAANATAA ANTATGCANC 240
AAATTTGGNG GNANGNNGTG TGNNGTN 268

SEQ ID NO:5683

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06751

SEQUENCE DESCRIPTION:

GATCAATGCA AAAATTGTTA TATATGAACA TATAACTGGA GTCGTCAAAA AGCAAATTAA 60
GAAAGATTG GACGTTAGAA GTTGTCAATTT AAAGCAGCCT TCTAATAAAG TTNTTTCAAA 120
GCTGAAA 127

SEQ ID NO:5684

LENGTH:221

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06752

SEQUENCE DESCRIPTION:

GATCTTTACA ATTACAGTGT AGTAGACAAT TCGGAATTAA TTTGAAACAC ATCACAACAT 60
AACTGAGAA AATTCCTAN TGTATATGTA GTGTAATAA ATGTTTAAAG GCTGCAAGGA 120
TTGATTATA AANNCTGTTT GTNGGCTTTC TAAGTCTTN ATNCCTGTAT TGGGANTAAN 180
CAGATTTNAG AAAATGGATA TAAGCTGANA TGTATATTTN N 221

SEQ ID NO:5685

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06753

SEQUENCE DESCRIPTION:

GATCATAAAT TTTTCTCAGT GTCCTTTTTG TGTTGAACAC ATATATCTGA AACCTGTATT 60
TAACCAGATA TTTCTACTCA ACTGAATATA CAAGTGTAAT TTTGATTGGA AAATTGTATA 120
TTATAAATGA AAATACAATA ATCAAA 146

SEQ ID NO:5686

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06754

SEQUENCE DESCRIPTION:

GATCCACCCA CCTCGACCTC CCAAAGTGCT GGGATTACAG ATGTAAGCCA CCGTGCCTGG 60
CCAAAGTTTT CTAATACCTG TTTATAATCC CCTTCTTTGT CCTCAGGTAA CACTATCTAC 120
TACGTGTCTC TNCAGATTAG CTTGCATTTC CTAGAATCTA ACTTATATAA TTTAAATAAT 180
ATAGTATATA CCCTTCTTTT GGCTTTCTTT ATTCAGCTAT GTTGTGAGAT TCATTCATGT 240
TGTTTAGAGT ATCAGTTACT AAGTAGTATT CCATTTTNGG CTATATCAAA NNTNGTTTGN 300
CCATTTACCT ATTAANGGGC ATTTNGCACT GGNTCCAGNN TGAN 344

SEQ ID NO:5687

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06755

SEQUENCE DESCRIPTION:

GATCTCTGTT TTGACTAAAC TAGAGGAAAA ATNATTGGAT GTGTTTATTC TTTTCTAAGC 60
AGAATGGTTT AACTTTGTAC TCTTTGAAAA ATAATGCTGA TTTATAAATC TCTGCCTATA 120
NCAGAATGGA AA 132

SEQ ID NO:5688

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06756

SEQUENCE DESCRIPTION:

GATCCTGCTG TGGCACGGGG CCTATGTGTC TCTGTCGCGT CTGCTGTGAA GACATGATGC 60
TCTATTTATT GTAGAGAGTG ACTTTATTTG CTTTCTAGAA TTGTTTATAA CAGATGGTAT 120
AAGAGAGGTA ATAAACAGAG AAAAATCTAT GCTTGTAAG AATACAAAAG TTAATTTTAC 180
CTACTATAAT ATGGCTGGCT GAANCTTATT TCCTCTCTNN GNAATAAATG TTCTANTGGG 240
CAAA 244

SEQ ID NO:5689

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06757

SEQUENCE DESCRIPTION:

GATCTTNTCT ATACCATTTA ATGTAGAAAA ACTAATTTTC TATAATTNTN TCTATTAAAG 60
GTGACATTAA TGCTGATAGA AAAATATTCC CACATATATC TNACTTGGA AACTTATAAA 120
AATTGTGCTG TCTTTAAAAT AAA 143

SEQ ID NO:5690

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06758

SEQUENCE DESCRIPTION:

GATCGCAAAG GGATTGTTCT TATAAAAGTG GCATAAATAA ATGCATCATT TTTAGGAGTA 60
TAGACAGATA TATCTTATTG TGGGGAGGGG AAAGAAATCC ATCTGCTCAT GAAGCACTTC 120
TGAAAATATA GGTGATTGCC TGAATGTCGA AGNTCTACTT TTGTCTATAA AACACTATAT 180
AAATGANTTT TAATAAATTT TTGCTTCAGC ACTTGAAAA 219

SEQ ID NO:5691

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06759

SEQUENCE DESCRIPTION:

GATCTAGATG AGATTACCCA TAGCAGGGAA AATAATTCAT CACCTACCAA AGACTGTACG 60
GAAAGGTGTG TTATTTTCAA AATTGCATTT TAGTTTGCAC ACATGTAAAT NATTATCCTA 120
TGTTAATCTA ATTGACAATT CANTTAGCTC CGCATCCTAA GACTTAAAAC TAGCAATTCC 180
TATGCAAATC ATCTGCTTAA CTGANCTACA AACGTTTTTC ATTAATTCAT TCTTTGATGA 240
CATATTCCAT GTTATATANT ANTNCANAAT AAAGTTAATA TACTACCCCA AA 292

SEQ ID NO:5692

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06760

SEQUENCE DESCRIPTION:

GATCCTCTCG CTTGTTCACT GGGGCATGTA CAGTGGGCAC GGAAGCTGG AATTCGTATG 60
ACGGAGCTTA TCTGAACTAC ACTTACTGAA CAGCTTGAAG GCCTTTTGAG TTCTGCTGGA 120
CAGGAGCACT TTATCTGAAG ACAAACTCAT TTAATCATCT TTGAGAGACA AAATGACCTC 180
TGCAAACAGA ATCTTGATA TTTCTTCTGA AGGATTATTT GCACAGACTT AAATACAGTT 240
AAATGTGTGA TTTGCTTTTA AAATTATAAA AAGCANAGAG AAGNCTTTGT ACACACTGTC 300
ACCGGGGTTA TTTGCATCCA AGGGAGCTTN 330

SEQ ID NO:5693

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06762

SEQUENCE DESCRIPTION:

GATCANAGGT CTTGAGGTCT TTACATCTTG ACATATACAC TGAaaaaaaan GGGGGTTGTA 60
TGTATNAATG TGCTACCCAA ACCTNTGGCC GCCACTTTTA AATTCTCAGA TTGCCCTGAA 120
TTTTGNCAT TTAAATAAT GNN 143

SEQ ID NO:5694

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06763

SEQUENCE DESCRIPTION:

```
GATCTTAATG CTTCTCCTGC TCTGTAAGCC TCTNAAGAGC AATATCTAAT TAATTATTAC 60
TGTAATTTTT TAAAAGGCTT TAAAGTGCCT CAGGGGTCCC CTGAAACTAA TTTCCTATTT 120
CTGGGATTCC CTGGATTCAT TATATGNNAT GGTGACATGA TTAGAGGAAT TCNTTTTAAG 180
TATGAAANTT GTCCCTTTCC TNCTTCAGTA CTTGCCTCCT NGCTGGCATT GANTTAACAC 240
AGGGACAAAA TTTGGTTAAT TNNTNATTNC NAN 273
```

SEQ ID NO:5695

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06764

SEQUENCE DESCRIPTION:

```
GATCTGTACT ACAGGAACCA AATGTCATGC GTCATACATG TGGGTATAAA GTACATAAAA 60
TATATCTAAC TATTCATAAT GTGGGGTGGG TAATACTGTC TGTGAAATAA TGTAAGANGC 120
TTTTCACTTA AAAAAAATGC ATTACTTTCA CTTANCACTA GACACCAGGT CGAAAAATTTT 180
CAAGGTTATA GTACTTATTT CAGCANTTCT TAGAGATGCT AGCTAGTGTT GAAGCTAAAA 240
NTAGCTTTAT TTATGCTGGG NTGGTGATTT NTTTATGNCA AAATTTTNT AGNGCGAANC 300
ATGTGGTGNN TAGCTTGGNN ATGAANGAAT TNTGN CN 337
```

SEQ ID NO:5696

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06765

SEQUENCE DESCRIPTION:

```
GATCTAGAAG TTGCAACATT CGTTTGATAG GAATTCCAGA AAAGNAGAGT TATGAGAATA 60
GGGCAGAGGA CATAATTTAA GAAATAATTG ATGAAANCTT TGCAGAACTA AAGAAAGGTT 120
CAAGTCNCGA GATTGTCAGT GCTTGTGCGAG TACCTAGTAA AATNGNATGA AAAGAGGCTG 180
GCTCCTAGGC ACATCTTGGT GAAATTTTGG AATTCCTAGT GATAAAGGGG AAATNATAAG 240
GGCTNCTAGN GGGNGANGGG AATTNCNTGC CAGGGANCAG GNTCAGTTGN 290
```

SEQ ID NO:5697

LENGTH:393

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06766

SEQUENCE DESCRIPTION:

```
GATCATTCTT GTATTAAACT TTCATATGCC AAAAGGGTTT GTCCCGTTTN ATCTGCCATC 60
AGTGTTTGAC CTGTTTAGGG CAGAGGCAAT AAGTCAGAAG TCTTGAAGTT GAAATAGTTA 120
TATGTGTGTC ATTGGACTGG ATTATAAACA GCTGTCTTGG ACTTCCCTC TCTTAACACT 180
GACTGGTNAT CAGTATCATT AGTGAAAAAG NAAGCAAATT GTTTGTNATC ATCTCTTTAG 240
```

NCAGGTAAGC TGGAATGGGT GGGGCTTTAA ATAATANAAN CATGCGCATN GTTGGCTTGT 300
GTATGGGCCT NCTCTGGGA TTCCTNGTNG TNATGGGCTT GGTATTTTGG GTNCNTGATT 360
TTGTCCANNG GCANTNCCAG GTGGGTGCCA NCN 393

SEQ ID NO:5698

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06767

SEQUENCE DESCRIPTION:

GATCCANGNT AAGAGGCNCC CCCCCGACCA GCAGAGGCTC ATCTTTGCAG GCAAGCAGCT 60
GGAAGATGGC CGCACTCTTT CTGACTACAA CATCCAGAAA GAGTCGACCC TCAACCTGGT 120
CCTGCGCCTA NGGGTTGCTG TAAATCTTCA ATCAATGCAA TNNCNATGCC CATNAN 176

SEQ ID NO:5699

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06768

SEQUENCE DESCRIPTION:

GATCTACTCA GACAGGACCT TCGCACCTTT GCCAGAGTTT GAGCAGGAAG AGGATGATGG 60
TGAGGTAAC T GAGGACTCTG ATGAAGACTT TATACAGCCC CGNAGAAAAC GCCTAAAGTC 120
AGATGAGAGA CCAGTACATA TAAAGTAAAA TNACATGGAT TTAAATCAAT TGTTTAAA 178

SEQ ID NO:5700

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06769

SEQUENCE DESCRIPTION:

GATCGTTTCT TTAGAAAAGT GGCATTGGCT TTTGAATATG AAATCTTCTC ATAGCTGCCT 60
AAAAAAGACT AGAATGTATA TGGATATCAG AAACCTTTAA TAATACATAA TTTATGCAAA 120
GATAAGATAA AGCAACATAA CACTAATTAT AAAACTATTT TTAAATCCCC ATTTTAAATG 180
ATAANTATAC ATTTNTATTT AATTCCTTT GANTAAAACA NTTGTAAAGT AAA 233

SEQ ID NO:5701

LENGTH:374

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06770

SEQUENCE DESCRIPTION:

GATCTTCATC TGACTATGAC ATAAAAACAA CTTTATACCC AGAAAGTTAT TGATAAGTTC 60
ATACATTGTA CGAAGAGTAT TTTTGACAGA NTATGTTTCA AACTTTGGAA CAAGATGGTT 120
CTAGCATGGC ATATTTTTC A CATATCTAGT ATGAAATTAT ATAAGTNTTC TAAATTTTAT 180
ATCTNGTAGC TTTATCAAAG GGTGNNANTT ATTTNNTTCA TACATATTTT NGTAGCACTG 240

ACAGATTTCC ATCCTNGTCA CTACCTTCAT GCATAGGTTT NGCAGTATAG TGGCGCCACT 300
 GTTTTGAATC TNATAATTNA TACAGGTCAT ATTANTNTAT NGCCCTTAAA AAANATCAGT 360
 TGTTCAGNG GAAN 374

SEQ ID NO:5702

LENGTH:452

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06771

SEQUENCE DESCRIPTION:

GATCCTCCTG CCTCAGCCTC CTGAGTAGAC GGATTATAGG CACCTTGCCC AGCTTCTATA 60
 GCAGCATTTT TTTCTAACAC CTAAAAAATG GAAACAAGCC AAATGCTCAT CCACTGGTAA 120
 ATGGATAAAC AAAGTGTAGT CTTTCTATAC ACTGGAATAT TTGGCTATAA AANAGANTGA 180
 NATATTGATA CATGCTACAA CATTGATGAN CTTCAAAAAC ATGCTAAGAG AAAGCCAGTC 240
 ACAGAANAAT ACATNGTATT CTATAAGAAT GTCTAGGGAN CGTNAATCTA TATNGGCAGA 300
 AGGTAGGTTN GTGGTTGCCT AGGGCCCGGG GGGAAAGGGT TAGGGGGCCT NGGGGGTGNC 360
 AGCTTATGGG GCTGCTAATN GGGCCTNCCG NTTCTCTTN GGGGGTTGGT ACCCTGCTAA 420
 ATGNCCTNN TTGGCNTGGT TTNNCCCGG GN 452

SEQ ID NO:5703

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06772

SEQUENCE DESCRIPTION:

GATCTGTCTG TGCACATGCC TCTGTAGAGA GCAGCATTCC CAGGGACCTT GGAAACAGTT 60
 GACACTGTAA GGTGCTTGCT CCCCAGACA CATCCTAAAA GGTGTTGTAA TGGTGAAAAC 120
 GTCTTCCTTC TTTATTGCCC CTTCTTATTT ATGTGAACAA CTGTTTGTCT TTTTTTGTAT 180
 CTTTTTAAA CTGTAAAGTT CAATTGTGAA AATGAATATC ATGCAAATAA ATTATGCAAT 240
 TTTTTTTTCA AAGTAAA 257

SEQ ID NO:5704

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06773

SEQUENCE DESCRIPTION:

GATCANGAAG CTATTTTCNA TTCTGGGGAA CGATTATAAC TTAAATNATT GTTTTAATAA 60
 AAATTCTAAG CTGGAAA 77

SEQ ID NO:5705

LENGTH:278

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06774

SEQUENCE DESCRIPTION:

GATCCAATTT CTTTGTGGTA CCTGCAGTTT AAAAAATAAT TTGACTTCAG TGAGCATATT 60
 GGTATCTGGA TGTTCOAATT TAGAACTAAA CCATATTTNT TACAAAAAGA TATTAATCCC 120
 TCTACTCCCA GGTTCCTTTT ATATGTTAAG ATATAATGGC TTTGAGGGGG GAAAAAATAA 180
 ACCTAGGGGA GAGGGGAGTT TCCTGTAGTG CTGTTTCATT AGAGGATTTC AGTAAATTA 240
 ATTCCACAGC TAATTGAATA AATAATGGNA CCTTTAAA 278

SEQ ID NO:5706

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06775

SEQUENCE DESCRIPTION:

GATCTGCATA TNATGTATTA GGTTAGGTCA CAAAGGTTTT ATCTGAGGTG ATTTAAATAA 60
 CTTCTGATT GGAGTGTGTA AGCTGACCNA TTTCTAATAA AATTTTAGTT GTACACTTTT 120
 AGTNGTCATA GTGAAGCAGG TCTAGAAAAT AAGCCTTTGG CAGGGAAAAA GGGCAATGTT 180
 GATTAANCTC AGTATTAANC CACATTANTC TGTATCCCAT TGTCTGGCTT TTGTAAATNC 240
 ATCCAGGNCA AGNCTAAGTA TGTGTTTAA TAGGNATCCT TTTTTTTTTT TTNAANGCCT 300
 AANNNGGN 308

SEQ ID NO:5707

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06776

SEQUENCE DESCRIPTION:

GATCGTAACC CTTGTTGAC TAATCTNGCC GTGGTTTTGT NTAGGTCTGC AGGAAGGAAG 60
 NCTNAAAAAG CGGACGAAGA TTTNACTTA AGTGGGACTT TGTN 104

SEQ ID NO:5708

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06777

SEQUENCE DESCRIPTION:

GATCCTAGTA AGTCANTNGT AGTTTACTGG TGANGTGAGC ATTNTAGATT CCCCCNTTAT 60
 CACTAATCAC ACAACAATTT TAAGAAGTAG GCTATAAAC AAAAAAGGT TGCTGTTTTT 120
 TATTTTAAA TAAACNN 137

SEQ ID NO:5709

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06778

SEQUENCE DESCRIPTION:

GATCTCATTT GCTGGAATGA TTGATTTAAG AGTAAAATTA GCCACTGCGT NTGTNTNGTG 60
TATAGTAACC GGTTTTNTTG CACTTGTCTG TGGCTGAAAC ACTTACCTGC AGTGGAAAAGC 120
CGTGCAAGGA GGAGGTAAAC ATTGGAGATG TTTGTNAAAA TATTACTCTT GCTGTGAGGT 180
TTTAGTTTGT TTTGAATGAG AAAAGACTAA GTAACCTAAT CCATCTCAAT GTAGTGTTTT 240
AATANNNGG GNNCCTAATA TTTGANATGG GTCTCAGACA TGTCTACAAA TATGGGTACT 300
ATTTNNTGC CCGTGTATTT TCACATTTNA NAN 333

SEQ ID NO:5710

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06780

SEQUENCE DESCRIPTION:

GATCCTTATA AATNAGAAAC ATGCAAGCTT CAGCTGCTCG AGTTCTATAG TGTCACCTAA 60
ATCGTATGTG TATGATACAT AAGGTTATGT ATTAATTGTA GCCCGGTGNN CNTCGNGGGN 120
ACCTN 126

SEQ ID NO:5711

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06781

SEQUENCE DESCRIPTION:

GATCCGGCAA ACAAACCACC GCTGGTAGCG CGTTTGTNTT TGTTTGCAAG CTTCAGCTGC 60
TCGANTTCTA TANNGCCACC TAAATCGTAT GTGTATGATA CATAAGGTTA TGTATTAATT 120
GTAGNCGTTN GCN 133

SEQ ID NO:5712

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06783

SEQUENCE DESCRIPTION:

GATCCTTTTA AATNAAAAAT AAAGTTTTAA AAAAAACAT GCAAGCTTCA GCTGCTCGAG 60
TTCTATAGTG TCACCTAAAT CGTATGTGTA TGATACATAA GGTTATGTAT NCNNNN 116

SEQ ID NO:5713

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06784

SEQUENCE DESCRIPTION:

GATCTTCTCA ATGGGTGGNC TCCTGGTATT CGTGGGACCA CCTGTGGGCA CAGGAGCCAA 60
TGTGGTTCAG ACAGCTGGGC AGAGGGAGCT GCTAGTCAGC TGTTTGCCCA CACTCTGCCT 120
GTCATGGTGA TTTGNACCCT ACCCCCCTGG TCCCAGNGNC CTGGGGCTCA CTTGATACCG 180

TTGAAAGTAA GCACAGNCTG CATGTNCTCA GGNAGGNCCT GGGGCTCAGG GCACTCGAAG 240
NCATCAATGN TGGGNACANT GTTNTTGN 268

SEQ ID NO:5714

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06785

SEQUENCE DESCRIPTION:

GATCTCAGAA TACAAATTTA AATAAATTAA TTTAATTCTC AAAACACCCT TGATTGGAAC 60
TTACAGCTGG CCCTCTGTAT TCGTGGGTTC AACCAATCAC TAATTAAAAA TATTGGAAAC 120
AANNNNNNN 129

SEQ ID NO:5715

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06786

SEQUENCE DESCRIPTION:

GATCCTGCAT TTATGGTGTA GTTCTGAGTC CTGAGACTTT TCTGCGTGAT GGCTATGCCT 60
TGCACACAGG TGTTGGTGAT GGGGCTGTTG AGATGCCTGT TGAAGGTACA TCGTTTGCAA 120
ATGTCAGTTT CCTCTCCTGT CCGTGTTTGT TTAGTACTTT TATAATGAAA AGAAACAAGA 180
TTGTTTGGGA TTGGAAGTAA AGATTAAAAC CAAA 214

SEQ ID NO:5716

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06787

SEQUENCE DESCRIPTION:

GATCTAATCC CTTCAAGGAA GTGATAACAC TGGAGTGGTA ACAAGAGGAG CAGGAAGCAA 60
GGCCAGCCCT GGTTCCTCAT CCCCATGTGT TTCAGGTGGA ACAGGAGGAA CTGGNCCAGG 120
CCAGGCCTCA TCCTCCTGGA CCCAGCAGGG GCAGAAGGAG GAAGGGACTG GTCCAGGCAT 180
GGGTCCCTTC CCNNTGCTCC ATGGGCANCT CTGCTGTATT GATATCACTA GTAAAGTCTG 240
TCTGCACTGC AAA 253

SEQ ID NO:5717

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06788

SEQUENCE DESCRIPTION:

GATCATGTCT TTCAGAATCC ATGTACATAT AGGCTGTNCT AGCCACAGTG GTAGATTTAT 60
GATTACATC CGAAAGTGTG CCTTAGTTAT CAATTAAACA TTTCTCTAGT ATTCATATCC 120
CTTTCCTTAC CATATACCTC AGTGTATCCT TCCTGTGTCA AGCCTTATAA ATCATGTAAT 180

TTAGTGCCAC TCATGTAAAT CAGTAAAATC ACAAAGGTCT ATTTAATGAA AACGATTTAC 240
 CAATGTTGTT TTTTTTTAAC AGGANAAGNA NTAGNAGCAC NTTGTCATTT TTNAGANGGN 300
 GGNNTTGTG GNGNTGGGG GGGNNGNTTG GN 332

SEQ ID NO:5718

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06789

SEQUENCE DESCRIPTION:

GATCATGCCA CTGCACTCCA GCCTGGGCAA CCAGGTGAGA CCCTGCCTCA AAAATAATAC 60
 AATAAAAAGT AAAAGCAGCC CTGGGGAAAT GGAGACAGTG GACAAAGCAG GCTGGGGCAC 120
 CAGGTGTGCA TGTGGGTGTG AGTCTGTCAT GAGAGCTGTC CTGANTGCC TTAACGCCAC 180
 TGAAGTGTAT GCTGGAAAAC AGTGACAACA GTGGATTTTG TTATATAGAC AATTANANN 240
 GTATANCACC CAGAAANANT GTGTGNNTGT TGGGNGTGG TGNN 284

SEQ ID NO:5719

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06790

SEQUENCE DESCRIPTION:

GATCTTTAAC TCCTCCTGGC TGCACCTGGG TAGGGATGGT GGCATCGATG CCCCTCTGTC 60
 TGCTGAAGGA CCTGTTGCTG CTCTGTCTT TTCACCCCTC CTTGGCTGAT GACCCAGAGC 120
 CCTCTGATGA TGGCATTCTC CTGGCAAGAG AAAAAGACTT AACTAGACTT CTGAACTTGA 180
 ACAGTTTCAG GTTATATTTT AATTTNNNT TTTTGTAC NGGTNCNGAT NCTAATACAT 240
 TNCACCNNGC AAA 253

SEQ ID NO:5720

LENGTH:389

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06791

SEQUENCE DESCRIPTION:

GATCCACCCA CCTCGGCCCC ACAAAGTGCT AGGATTACAG GTGTGAGCCA CCATGCCCGG 60
 CCCAGAATAC TTTTAAAAG AAGAGCAGGT TAGAGGAAAG AAAAAATTG ATGCTGAATG 120
 TGGTGATGAA AGCATGTTTC TAAATGGGA AGCAGATGCT TAANGAGGAA AGACTAATCT 180
 GGGATTTTGC CCCATTTCTC TGGNTTTCA CTCCTATATT TNATTCTCAC AATCGTGTCG 240
 TCACATAGTG CANAANACAN ATTTCTTGTA AAGTCCCCAG GGGTTTATGC TTGGGTGAAA 300
 GTTTTAGCCT GAGTATTTT CTNCTCTAA AAANAGGTGG GGANTGNGNC ATTTGAGGNT 360
 NTTNACCTTT TAATTGTNCT GCTATNGGN 389

SEQ ID NO:5721

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06792

SEQUENCE DESCRIPTION:

GATCTGGTTG GGGTTTGGG TTTTGTGTG TTGTTGTTA TTTGTTATTT TAAAGGTAAA 60
TTGCACTTTT AAAAAAATAA TTGGTTGACT TAATATATTN NCTTTTTTNC TCACCTGCAC 120
TTAGAGGAAA TTTGAACAAG TTGGAAAAAA ACANNNTTNG TTTCAATTCT ANGN 174

SEQ ID NO:5722

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06794

SEQUENCE DESCRIPTION:

GATCCTATGT TGCTGGAAC T GCCAAACAG GATGTTGTGC TCAATNACCC CATGTGAGTG 60
CGTGGACTCC TGGGAGCTCC TGCTCCNTAC AGTGGGCTGC AACTCCTGTA CTTGAAGCTG 120
AGACCTCATA TGACGTGGCC TTCGTGTTGT CAGAGAGTGT CTGGAAGCTG CTGTTGCCAT 180
CTTGAACAAC TCACCAACCT CCAACCCAGA GCCCCAGTGA GAGAGGAGCA TTTGGCCTCC 240
TGCTTCCTTC TGTGGCCTCT GCCGGGCTCC ATTNCCAAGG AAAAGAGAGG AGCTTGGGCT 300
CACAGAAAGA GAAGGGGATG AAACCCCAAG NGGCCCTATC TTTTGGGATT TACATGGGAT 360
TTTTATN 367

SEQ ID NO:5723

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06795

SEQUENCE DESCRIPTION:

GATCCTGAGT AATCCTTTTA GAGCCCGAAG AGTCAAAACC CTCAATGTTC CCTCCTGCTC 60
TCCTGCCCCA TGTAACAAA TTTCAGGCTA AGGATGCCCC AGACCCAGGG CTCTAACCTT 120
GTATGCGGGC AGGCCAGGG AGCAGGCAGC AGTGTCTTTC CCCTCAGAGT GACTTGGGGA 180
GGGAGAAATA GGAGGAGACG TCCAGCTCTG TCCTCTCTNN NNNCTCCTNC CTTCAGTGTC 240
CTGAGGAACA GGAATTCTC CACATTGTTT TGTNTTGCAA CATTTTGCAT TAAAAGGAAA 300
ATCCACTGAA A 311

SEQ ID NO:5724

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06796

SEQUENCE DESCRIPTION:

GATCCTCCGG CCTCAGCTGG TCTACAGGCG GGTAATCAAG GGAAGGGAC TACAGGCGCG 60
CCCTGCCGCG CCGGACAAG TTTTGTATTT TTAGTAGAGA CAGACTCTCC CTGTGTTGCC 120
CAGGCTGGTC TCCAACCTC GGGCCTCCCA AAGTGTGGG ATTACAGGCG TGAGTCACCC 180
CTGCAGGCCA CAGCTTTGCT TTTTAAAAGC ATTTCTGCAT AACTAAAAAG ACAGGAAATT 240
ACGAGCATAC GGNAAGTAT TTCTGCTTTC CTGAATTTTC TAAATGTATT TAATGGGCAT 300

GGTTCTTTTG CAATGAAAAA GTAATANATT NGGGTNTCAT CN

342

SEQ ID NO:5725

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06797

SEQUENCE DESCRIPTION:

GATCCGCCGA CCTCGGCCTC CCAAAGTGCT GGAATTACAG GCGTGAGCAC GTGCGCCTGG 60
CCAAGAATGG ACATTTTTTA AAAAAACATC AGTACTTCCT ACCACTGCTG CATGAGTATA 120
ATGTCCGGA ATTATCAGAA AGCATAATGC AGAAATACGA ATTAGTGGAA CTTAATCATG 180
TGCCATATAA GCTTACCTAA CAAACAGTTA TATCCCTATT CCTCAACTGA ATGTCTTTTA 240
ATAAATNAGA NTTTATCATT TNNGTANGG GTGNGTGTGN GGNTGGNNGG GGGGGGGGNG 300
GGGNNGGGGN GN 312

SEQ ID NO:5726

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06798

SEQUENCE DESCRIPTION:

GATCCTAGGC TCCCTCCATC CCTGGTATGT GGTCTCATT TTCATATAGA CCAAGAGCTA 60
GAGCTCCAGT TACCATTCTT TAAAGTATAT TTTAATGCCA AATAGTGAAT AAAGGTGGCC 120
AGAAAATTCA AA 132

SEQ ID NO:5727

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06800

SEQUENCE DESCRIPTION:

GATCANCTAA GGTCAAGAGT TNGAGACCAG CCTGACCAAC ATNGTGAAAC CCTGTCTTTA 60
CTAAAAATAC AAAAATTTAC CAGGCACCTA TAATNCCAGC TACTTCAAAG GCTGAAGCAG 120
GAGAATCACT TGANN 135

SEQ ID NO:5728

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06801

SEQUENCE DESCRIPTION:

GATCAGTGGG CCTCCAAGGA GGGNCTGTAA AATGGAGGCC ATTGTGTGAG CCTATCAGAG 60
TTGCTGCAAA CCTGACCCCT GCTCAGTAAA GCACTTGCAA CCGTCTGTNA TGCTGTGACA 120
CATGGCCCCT CCCCTGCCA GGAGCTTTGG ACCTAATCCA AGCNCTCTT TGCCAGAAA 180
GAAGATGGGG GAGGAGGCAG TAATAAAAAG ATTGANGTAT TTTGCTGGAA TANGTTCNGA 240

01700

TTCNTCTGAA CTCAAAGTGA GGAATTCAC CTGTNANCCT GNGTCGTACA GANAGCTGCC 300
TGGTNTATCC AAAANGCTTT TTNTTCCTCC TGTN 334

SEQ ID NO:5729

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06802

SEQUENCE DESCRIPTION:

GATCCTGTAA GCAGACTTGG GCAGTCTCCT TTAGAAATAG GTTGTCTGTA CATGTTCTAN 60
GGTNTTGTAG ACACGTGTGA CTGTNTANGT GTATTGATGT GAATANTATT AAATATCCTA 120
ATTATNTAAT TCATTGTATT GTTTCTGNGA AGTTGGGN 158

SEQ ID NO:5730

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06803

SEQUENCE DESCRIPTION:

GATCCATANA AGAGCTCCTA AAGAAGAACC CACATGAAAA ACTATCAGAA TCATGTTTAA 60
GCTAAACCCA TATNCAAAGA CCAANCNACG NACCACCATT CTTCGN 106

SEQ ID NO:5731

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06804

SEQUENCE DESCRIPTION:

GATCCTGGTG TGTGTATTAT ATAAAGAGAC CCCTCCCTT ATTTGTGTT TTCCATCCCT 60
CTCCCTTAAC AGGATTGAAA TAAAACATGC TTCTGTTTT GTAAA 105

SEQ ID NO:5732

LENGTH:243

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06805

SEQUENCE DESCRIPTION:

GATCANCAAA ATCCAATTC ACATGTGGCA CTAGGAAAAT GGAATGCTAT AAAATTAATC 60
CCCATCACCC AAGTAGGGAT GCTGGTGCTT TTATACTGAG TCTTTACTGC CAATAAGTGA 120
TGCTGGCTGC AAAGGANCAG CTCTACAGAA AGTTTTTGGG TTAGTGTTTC CCTAGCTTAT 180
TNCTGCANTG GGGAAAGCCA GTTTCATACC AAAAANGANA ATGNAGGTGN TTATANTGGN 240
NNN 243

SEQ ID NO:5733

LENGTH:194

01701

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06806

SEQUENCE DESCRIPTION:

GATCTCGGTC ACGTGTCCTG GGCCTGAGG GGAAAGGAAG CGGGCATGAT TGTAACAAT 60
GAGGGGGTTC TCTTGATGTA ATGAAATGCA ATTTTATGGT TTGGTGCAA AACTCCTATT 120
TTCCAGTAAA TTAACCTTAT TTCTAAAGCA TATTTTGATT TGCCATCAAG AGCAATAAAG 180
CATTAATCT TAAA 194

SEQ ID NO:5734

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06807

SEQUENCE DESCRIPTION:

GATCTGGGCC CTGAAGTATA TAAGTAGGAA TTTGCAAGAT GGATGAGGTA GAAAANNGTA 60
TTTCATATTG TGGAATAAAC AGAGGGAAGA GCCATTGTC TTATCCCCAA CTCCAGAACT 120
CTACTACTCA TGGAGTCTGA CACAAACAAT GTTAATAATC TGTTTNAGTT CTCATNATAG 180
GGCACTGGAN TTGGCTGTAA ANTNC AAAC ACNTNN 216

SEQ ID NO:5735

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06808

SEQUENCE DESCRIPTION:

GATCTTCTAG TTNCTGTGTT GTTAGACTC AAAGAATCAC AAATNTGTCA GTAACATGTA 60
GTTGTTTAGT TATAATTCAG AGGTACAGA ATGGTAAAN TNCCAATCAG TCAAAAGAGG 120
TCAATGANTT ANN 133

SEQ ID NO:5736

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06809

SEQUENCE DESCRIPTION:

GATCTTAGCA CCCAACTCTG CTGCCCTTNC TGCTGGGCAG TGCCTNTCCT AAGAGGGGAC 60
TCCCTAAAGG CCAGAGAGAG GGTGCTCATC TCCAGGACCT AGGCCACCTG TCAGCACAAA 120
CAGAACTTAT TCCAGACATA AACATGAGTC TTCTTATTC AAACACTGGA GCAACTGNCT 180
AAATATCACT CTCCTACTTA CAGGNTCAN CATACTNGTC ACAGCCCTTT ACTCCCNCTA 240
CATATTTNCC ACANCACANT GGGGCTCANT NNCCN 275

SEQ ID NO:5737

LENGTH:211

TYPE:nucleic acid

01702

TOPOLOGY:linear

CLONE:HUMGS06810

SEQUENCE DESCRIPTION:

GATCATGCTA GTNACTTCCT GCCCCCAGGC ACCGTGCCAA ANACTGGATG CCCCCTACTC 60
CTCAGGGGAC TGTCCAGGGC GCCCAGTGGT AGTGAGGGAG AGTGTCTCTG TTCTTTTGCT 120
CAGCCTGCTG GGCCCTTTGT GTTTGAGGAT GCTTAATGAT TCCAGCCTCT CACTGTGCCT 180
TATGCATTAA AATTNCTTTG TTACGAGCAA A 211

SEQ ID NO:5738

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06811

SEQUENCE DESCRIPTION:

GATCTNCTTT ATAGCCANCT CTCCTCACTT AACAGGTACT TTCTCCAAA ACCTAAGAAC 60
CAAAGTCTTC CGCTTGCAAC TTGGGATGGT GATATGGCTG TGTCCCCACC CAAATCTCAT 120
CTNCACCTGN NNN 133

SEQ ID NO:5739

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06812

SEQUENCE DESCRIPTION:

GATCATCGCA AGGAAGNAGG CAGACAAGAG TAAGGCACAC CTGACTCTTA GGACTAGCAG 60
TCAGAACAG GAGGAAAGNT TTTATTGCTA TGCGGGTAGG TAAGAACAGA TTTTACTTAC 120
ATCCATATAG TACTTAAAG TCCAGTTTTC TGTTAAACNN NNTTCTNNN 169

SEQ ID NO:5740

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06813

SEQUENCE DESCRIPTION:

GATCTCTTGT CCACTAAGTA TCTTGTTAAA TGCCAGTATC TCAGTCTTTC TGAAGCCCTG 60
AAATGGTAAT TGTAGCATTT CAGAAAATNT CTTTCATTC AATCAATAAA AAGCTTTTGT 120
AAATAAA 127

SEQ ID NO:5741

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06815

SEQUENCE DESCRIPTION:

GATCTTCCAG ATTAGGCTAA ATGTAATGAA AACCTCTTAG GATTATCTGT GGAGCATCAG 60

TTTGGGAAGA ATTATTGAAT TATCTTGCAA GAAAAAAGT ATGTCTCACT TTTTGTTAAT 120
GTTGCTGCCT CATTGACCTG GGNAAAATGN AACAAACAN TAAGGCAANT GGTAGGAAA 179

SEQ ID NO:5742

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06816

SEQUENCE DESCRIPTION:

GATCAGCCCT NCCCTTCAGC ATCCTCAGNT CCTGNAGCAG AGCCTGGAAG ACACCCTAAT 60
GTGGCAGCTG TCTCAAACCT CCAAAAGCCC TGAGTTTCAA GTATCCTTGN TAACACGGNC 120
ATGACCACTT NCCCGTGGG CCATGGCAAT TTNACACAA GCCTGAAAAG ATGTTGTNTC 180
TTNTGTTTTT TTCTTN 196

SEQ ID NO:5743

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06817

SEQUENCE DESCRIPTION:

GATCCGCAGT CCTAACAGGG TGAGAAAGCA CAAGAGGGGC CAGCTCGGCT GAGGCCTGAG 60
GAGAAATAAT GAGAAGTTTT GTTCGTTCT TGGGCTGGGG CATCTCAGGA ACAGTGAGGG 120
CAACAAGCTG TCCTCAGGG ACCCTCACCT GCCCTCCCAT GTGACCAGGC CCTTCCAGG 180
TGGGGACTGG GGCTTGCTTT ATTAAGTGAG CTCTTGGGCT TTTGAAGTAG GACAGAGGGC 240
CCTGGTTTGG CAGAGAGGAG GCAAGGGAGG GCTTTAGAAC ATCTGAGAAA TGTTAATAAA 300
ATANTTCAGA AANTAGGAAA AAAATN 326

SEQ ID NO:5744

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06818

SEQUENCE DESCRIPTION:

GATCTCGAAC CCTGTCTAGA AGGAATNTAT TTGTTGCTAA ATGTTCACTT TTTATAGTNA 60
TGTCTGTAT TCTAAACAGT AAAGGGGNTT TATTNCTATC ACAA 105

SEQ ID NO:5745

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06819

SEQUENCE DESCRIPTION:

GATCTCAGAA GTTTNAAAA ATAGCAAAGA AGACTGNATT TGGAAANCAT GGTCTACAAT 60
TGGTGTTAA ATNCTGAAGC TATGAAGAAT AAATATTTCA ACTTTGGATT ATGAAACCCC 120
ATTTATGATT TTTTAAATAC ACTTGAAATA AAAATGATTA AACTAAA 167

SEQ ID NO:5746

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06820

SEQUENCE DESCRIPTION:

GATCTNTAGA ATTNTTATTG TAATTTTCCT ACTTCTTTGA TAAAAGAAAA ATAAGTCAGA 60
TTGTAACTC CAAGATTGAA AAAAAAACT CTTGAAAGAN GATTATNAGT TGTAACNAAT 120
TTGGGGGGTC TGGGCACAGA CATCTAACCT GGTATTGTAA GGCAGAGGCT CCCATTGGAN 180
TGGTAGTGGT CCGGGTCAGT TGTTTCATGGT GTAAGCTTTG CACNGTGTAT TGAACATTNG 240
NAGGNTCTGN CTNGAAAN 258

SEQ ID NO:5747

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06821

SEQUENCE DESCRIPTION:

GATCCCTGCC CTTNTCAAGA CTTTAGCTNT TCCTTCCATC CGGTGGCCTA TTCCAGGAAT 60
TCCTCTTTTG CTAAATCAG TTGGAGTTTG TNTCTGTTGC TTGTAATCAA GCCTTTATGG 120
CTGCTGGGCT GAGTGACACA AGCACTTTAA TGGCCTGGAG GGA CTTTAA TCAGTGAAGA 180
TGCAATCAGA CAAGTGTTT NGAAAGAGCA CCCTCGNGAA GGGTGGATGA CAGGGCAGGG 240
CAGGAAGGNC AGGNAGATGG CAGAACGGTG GTGGCTGCAG CCGGGGGTNC AACCAGGANA 300
CTGTTTGGCA AGCTNNGGGC TAGGGGGTAA GGNNTTTTNA GGGGTNGAAN 350

SEQ ID NO:5748

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06823

SEQUENCE DESCRIPTION:

GATCTTCCAT GTTTGTACGT TTGCAGTCAC ACACAACACC TTAGTTCCTC TAGGGGCTGT 60
ACAGTATTGT GGCATCAGAT AATGCCACCA AAGGAGACAT ATCACTGCTG CTGGGACTTG 120
AACAAAGACA TTTATATGGG TTTATTTTCA TTCTGCCAAA GTAAANCANT ACATCAACAN 180
GAGGAACTC AGNTTAAACC TGTTATTTCT ATGANNTTGG GATGATTGCT TTGTTTATGC 240
ACTTTTTCCT GNCTGTGCAT CCGCTGTNA GTGTTTTGCC CTNTAGTCCC TCACTAGCCA 300
TGCTTNTGTG NTGGGTTATC ANGGGNGTNN N 331

SEQ ID NO:5749

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06824

SEQUENCE DESCRIPTION:

GATCGAGGAT ATTTTTTAAG AGGTTCAAGC TTGTGACTGT TAGTAGTGCA AGGATTTGTA 60
TGGGCTCAGT GATTACAAAC AAAGACATGC AAANTACAAC TGTTTAAACA TTTTCAAGGT 120
ATTTTTAAAG GTTTTGTATT GAAACANTGT TTATATTNC TGAGCTCCTA AAAATGGTAG 180
ANTACACATG ANANCTTTTG TTTAGGAAAN GTTANCTTGT TAANTNCTNT TGATTN 236

SEQ ID NO:5750

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06825

SEQUENCE DESCRIPTION:

GATCCCACTT TTGCTCCTGA CAACACTCAT TACACTAAAC ACCTCTTGGA TTTGGTGAAA 60

SEQ ID NO:5751

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06826

SEQUENCE DESCRIPTION:

GATCACTGGA TGGATAGCTC AGCCTGGGGC ATTTAGTGTT TTCCCTGGTG ATAAATCCCC 60
AAGGCAGCTG GATTTGGAGC TGGTGGCAAG TTGAAATNAT TAAAAATTGA TTTGTGTGGG 120
ACTGTCAAA 129

SEQ ID NO:5752

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06827

SEQUENCE DESCRIPTION:

GATCTTTGGA CTGAGAATGT TTGGTAACAT AGTCAAGCAT TTGTTAAGCC AAGTGTGGAA 60
ATGTTCACTT TTAACTTTA CAGTTTTTTT AATGAGCAAT TCTACATTC TAAGAAAAAA 120
GATACTTCAT TTTTATATAA GGTTACAAC TCTTTATAAA NCTGTATTCA CAATGTCAAA 180

SEQ ID NO:5753

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06828

SEQUENCE DESCRIPTION:

GATCTGGCCT TTTCTTAACA AAATCNGTGC AAAANATGCA GGTGGATGTC CCTAGGTCTG 60
TTTTCAAAGA ACTTTTCCA AGTNCTTGTT TTATTTATTA AGTGTCTACC NNGTAAATN 119

SEQ ID NO:5754

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06829

SEQUENCE DESCRIPTION:

GATCTCCATA AATNACTTAG TCTTCTATGT ATAGCTATCA AGGAAATAAA ACCAATTTTG 60
CCACAAA 67

SEQ ID NO:5755

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06830

SEQUENCE DESCRIPTION:

GATCAGAACA AAAACACCAC TCTTTAATGG GTCTTTTCT TGGCTAGAAG TCTTTCCTCA 60
GTTTTTGTTG ACTATCATAC GCTGATTTGT GGGTNATGGA AGGGGGCTAG AGATAACGTT 120
TCTCTGTACT TTGGTAAAGN ATGAAGGAGT CAGAGAGGGA ACAGAAAAAG TGAGAGAGTG 180
GCCTGCTGAA ATAATAGCCT GCCTCTAAAA GTTGTGACCA GAAAGTATGA TTCATTGGG 240
CCCAGNGGGN GTAANNTATG TTTTNCATN TACCTCCCAT AGNACANGGT GTTNGGAGGG 300
NNGGAGTGAG TGTNNTAGAN GGN 323

SEQ ID NO:5756

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06831

SEQUENCE DESCRIPTION:

GATCAGGTGT CTATAACATT TTTAATTCTC TCTGGAAACA GACTCAGGTT TCTTTGGACC 60
AAATCCAAAA GAACACATAG CTGTAACACA GCTGTAGTTG ACTAGAATGC TCTGTATACT 120
TTATATTA AAAANTGCTTTG CATTTCNCC AGTGAATGA ANTTCATATG GTGTCCCACC 180
TTATTTAATG ATGGTACANT TAAAACTCTT AGTCAACTGC TGTNGAAAGT TTTCTCTATG 240
ANAGTNANGC TGTTGAAGA ATTNANGNGN TTNN 274

SEQ ID NO:5757

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06832

SEQUENCE DESCRIPTION:

GATCCGCCCA CCTCGGCCTC CCAAAGTGCT GGGATTACAG GTGTGAGCCA CTGAGCCCAG 60
NCTGTATCCA TGTNTTCTGC ATGTTGATTC AACCAGCTAC ACATGGACAT TGTAAGTTAGG 120
CCTATGATGA TTGTGTCTGT TCTGAAGATG TACATACCTT TTCTTCTATC ATTATCCCT 180
AAACANTAGA GTATAACAAC TATTTACACA GCATTTACAT TGTATTGGGT NTTNTANGTA 240
ATCTAAAGAT GGTTTAAAGN ATNCAAGAGG GTATGCATAG GNTATATGCG AATACCACCT 300
CATTTTANAT NGNTGACTTG NGCNTCGANN ATGAGGGGAT NTGN 344

SEQ ID NO:5758

01707

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06833

SEQUENCE DESCRIPTION:

GATCATGATA CAATTATTTT ATTAAGTCAT GGTTAATAAC AAATGAATCC AGACTTGTCT 60
AACAGATTTT CCATCAACAA ATATTGTTAT GTGCAAAAGT ATTGCCTATG TTGTTTACA 120
CACCCTGCA TTAAC TAGAA CTGCTGAGAG GACTGTATAT ATGATTTTAA ACCTAAGTTG 180
ATTTTTTTC TCACTCTTGA AAGGAGTACT TCTTTGTGAA AGCAGTTCTT ACAGCTTTGT 240
TTTCAACCAG CTAAAAATGT TTTGTATATN ACTCTAACCT GTTGTCTCC ACATTCTGTT 300
GGTNCTGATT GNTGCTGTNT NCTGGTTTN 329

SEQ ID NO:5759

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06834

SEQUENCE DESCRIPTION:

GATCTATCCC TCGGCCTCC ACACCTGAAC TTGCCTAACT AACTGGCAGG GGAGACAGGA 60
GCCTAGCGGA NCCAGCCTGG GAGCCAGAG GGTGGCAAGA ACAGTGGGCG TTGGGAGCCT 120
AGCTNCTGCC ACATGGAGCC CCCTCTGNCG GTCGGGCAGC CAGCAGAGGG TNGTAGCCA 180
AGNTGNTTGT NCTGGGGGCT GNCNTGTGT ATCACCACC AGGTAAATTA GACCATTNN 239

SEQ ID NO:5760

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06835

SEQUENCE DESCRIPTION:

GATCAACTTT CTTCTGTGT GTGGCTCAGN AGTTCTTCTG CAGAGATGGC GCTATCTTTC 60
CTCCTCCTGT GATGTCCTGC TCCAACCAT TTGTACTCTT CATTACAAA GAAATAAAAA 120
TATTAACGTT CACTATGCTG AAA 143

SEQ ID NO:5761

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06836

SEQUENCE DESCRIPTION:

GATCGCATCC CACAATGCGA GAATAATAAA ATAAAATTGG ATATTTGAGA AA 52

SEQ ID NO:5762

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06837

SEQUENCE DESCRIPTION:

GATCCTCCCG TNCAGCCTC CTGAGTAGCT GGGATTACAG GCGCACACCA CCAATGCCCC 60
GCTAGTTTTT GTNTTTTNA TAGAGACGGG GTCTCGCCAT GTCATTACAGG TTGGTCTTGA 120
ACTCCTGGGC TCAAGCAGTC TGCCTGCCTT GGNTTCCCAG TGCTGGGATT ACAGGCGTGA 180
GCACCGTGCC CGGCTAAAAA GTATTTTNA GTTCTGCATA TNGCTTATTT CACTTAACAC 240
TATATTAGAG NTTGTTTTAT ANCANTACAT ATAGATATGC TTATCCTTGN TTGACAGTNG 300
CATAATTNTT CCANTAAAAAT TTGGTTGTAT CNAGGGGCAN TTAACCCAGT TACTTAGNN 359

SEQ ID NO:5763

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06838

SEQUENCE DESCRIPTION:

GATCATNAAG GACATTCGCA ATCTGGAGGA CATCAGGAAG ACCTTACCAT CTGGCTGCTT 60
CAACACCCCG TCCATTGAAA AGCCCTAGTC TCTTTAGGGC TGGAAGGCAG CATCCCTCTG 120
ACAGGGGGGC AGTTGTGAGG CCACAGAGTG CCTTGACACA AAGATTACAT TTTTCAGACC 180
CCCCTCCTC TGCTGCTGTC CATCACTGTC CTTTTTNAAC CAGGAAAAGT CACAGAGTTT 240
AAAGAGANGC AAATTAANCA TCCTGANTCG GGNACANAGG GTTTTATCTA ANANNNGGTN 300
GNNNGTGN 308

SEQ ID NO:5764

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06839

SEQUENCE DESCRIPTION:

GATCATAAAT ATTAATAATN AAAACTGAGA AACTATTAC AATGCATTCC TTATAAATAA 60
ATGCTACATT TAGTAACTCA TTTCACCCAA A 91

SEQ ID NO:5765

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06840

SEQUENCE DESCRIPTION:

GATCAGCACA AGTAACAGAA AATNAGCCTG ACGGTGGCTT AAGCAATGGG AATGTTTATC 60
TCACATAGCA AAAAGTCTGT AAATAGATGG TTCTAGAGTT GGGTGGAAGC CAAAATGTCA 120
TCAGGATTTT CTTGGAACCG TCTGCTTTGC CATCCTCAGT ATTGCAGAAT GGCTGCTCCT 180
GCGCCAAGCA TCATTCTGCA AATNATGGTG TCCACAGCCA GAGTGGACAG TAGTACAGGN 240
GCCTTCTCAT TCTGCCCTTA TCCGGGANTA ACCGTCAGCN GCTCCAGCAA CCTNCCCCCT 300
GTCTNTTAT AGNGTGGGNN 320

SEQ ID NO:5766

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06841

SEQUENCE DESCRIPTION:

GATCCCACTC TGATTGCATC CATTTCTCTG AAAGACTTGT TTGTNCTGCT TCTCTTCATA 60
TAACTGAGCT GGCCTTATCC TTGGCATCCC CCTAAACAAA CAAGAGGTGA CCACCTTATT 120
GTGAGGTTCC ATCCAGCCAA GTTTATGTGG CCTATTGTCT CAGGACTCTC ATCACTCAGA 180
AGNCTGCCTC TGATTACCC TACAGCTTCA GGCCCAGCTG CCCCCCAGTC TTTGGGTGGT 240
GCTGTTCTTT TCTGGTGGAT TTAATGCTGA CTCCTGGTA CAAACAGCTG TTGANGCTCA 300
GAGCTGGAGG TGAGCTTCNN 320

SEQ ID NO:5767

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06842

SEQUENCE DESCRIPTION:

GATCCAGTGA CAATNTGCCC CCTGCCAGCC TGNGTGTCGT CACTCATCAT TCATTCATCC 60
ATNCTAGAGC CAGGTCTCTG CNTCCCAGAC GCGGCGGGNG CAATGCTCCT N 111

SEQ ID NO:5768

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06843

SEQUENCE DESCRIPTION:

GATCATTCTC TCTGAGGGCA GNTGNGGCGC AGGNAAATAG TCTTGGNAAT GTTAAATATG 60
ATGGGTAAAT TAAAAGTTTT ACAACATTCT ACCTAATATT TTNCTTTTAA CATACTTTTT 120
CTGTTCTATT GTATTATGGT GTCCGAAAGC TAAATAACGN CTAGGNAAAA TTTTTTTAAA 180
AAAAGNAAAA TCAGTTTAAT GTGGGNAGTA CTTAAGTGGT ATTATATTTN NCATTTTCAC 240
GTATAGTGCA TANAGN 256

SEQ ID NO:5769

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06844

SEQUENCE DESCRIPTION:

GATCGTGTTT ACAGAGGACT TCTTTAAAGT GTCACATTTT TAAAATGTAA ACATATTTTT 60
AATGCATACT TAAGTAATAT TTAAGAAACT AAACAAAATA ATGATACANT TGCAGTGTTG 120
TGCTTGTTGT CAATGACAAA AATAAAACCA TTTTGGTGGT AAA 163

SEQ ID NO:5770

LENGTH:253

01710

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06845

SEQUENCE DESCRIPTION:

GATCTCCAAG AAGTGACTCT AGCAGAAGAT TTTATGGTGA TAAGCATNCC AATCANGAAA 60
TGAAACCAGT GTTCCTGAGT GCACACTGAC ATGTCTGTGA ATATGTTACT GAACCTATAG 120
TCCAGTTTTT TNATNTCTTG TTTTAGTCTG AAATNATTTG GGCCCTAATA ATCCTAAAAAN 180
GAATGGAGCT GCATTGATGA ATGGGCTCAG TATTTAANGG GAGCAAACCT NTNGATAATA 240
NNTCTTTTNA GGN 253

SEQ ID NO:5771

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06846

SEQUENCE DESCRIPTION:

GATCTGAAAT ACTGACAGNG TTCCCCAAAG TTAGATATTA ACACAGCTTT TNACNTCTCT 60
TATGAGAACT TTACTGTAAA TATACCTTTA TCATAGAAAT GAGATATCCA ATACCTNATG 120
GNGACTACAA AAAGGNN 137

SEQ ID NO:5772

LENGTH:371

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06848

SEQUENCE DESCRIPTION:

GATCCCAGAG TTCAGCCAGC CTGGGGTCCA GAACTCAAGA GTCCGCCTGC TTGGAGCTGG 60
ACCCAGCGGC CCANAGTCTA GCCAGCTTGG CTCCAATAGG AGCTCAGTGG CCCTAAGNAG 120
ATGGGCCTGG GGTGGGGGCT TATNAGTTGG TGCTAGAGCC AGGGCCATCT GGACTATGCT 180
CCATCCCAAG GGCCAAGGGT CAGGGGCCGG GTCCACTCTT TCCCTAGGCT GAGCACCTCT 240
AGGCCCTCTA GGTGGGGGAA GNAACTGGA ACCCATGGCA ATAATAGGAG GGTGTCCAGG 300
CTTGGGNCCC TNCCCTGGTN CTCCNAGTGT TTTGNTNGGG TAATAANTTG GANCTATGGG 360
CTCTNAATTG N 371

SEQ ID NO:5773

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06850

SEQUENCE DESCRIPTION:

GATCGCACAC TACGCTCCAG CCTAGGTGAC AGAGTGAGAC TCCATCTCAA CAACAACAAC 60
AACAAAAAAC CACAAAAACT ATATTTTAA TCATGTTTGG TAGCTTGAAA ANTAAATNCT 120
TTCTGCCTAA A 131

SEQ ID NO:5774

01711

LENGTH:254

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06851

SEQUENCE DESCRIPTION:

GATCTGGAAA ANCTGCTGAC AGAGTGGCCA GACACAATAC CACTGTCTTT GGCTCTGGGG 60
NCAGTTGGCA TGCCAGGCCT GACTGCCTAC TTTGGCCTAC TTNAAATCTG TGGTGTNAAG 120
GGTGGAGAAA CAGTGATGGT TAATGCAGCA GCTGGAGCTG TGGGCTCAGT CGTGGGGCAG 180
ATTGCAAAGC TCAAGGNCTG CAAAGTTNTT GGNGCAGTAG GGTCTNNTGN AAAGGNTGCC 240
TACCTTNAAG AGGN 254

SEQ ID NO:5775

LENGTH:346

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06852

SEQUENCE DESCRIPTION:

GATCCTGGTG CTATGGTTTG AATGTCCCA CAAAACTCA TGTGAAATT GAATTGCCAT 60
TGTTTAACAG TATAAGGGGT GACTGGGCCA TGTGAGCTCT GCTCTCATGA ATGGATTAAT 120
GCCATTGTCA TGGAGTAGGT TAGTTTTCTC TGGCGTGGGC TCCTGGCAA AGGATGAGTT 180
CTGCTGCCAT GCTGTCTGTN TCATGCACTT GCTCACCATG TGAGCCTTCT GCNTCACACA 240
GGATGACCCT CACCAGATAC TTGCACCATG CTCTNGGGAC TTTCCAAGT NTCCAGAGCN 300
GTGAGCCAAA TNAACTNGCT NTNCTTTATA AAANANAAAN ANAGTN 346

SEQ ID NO:5776

LENGTH:336

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06854

SEQUENCE DESCRIPTION:

GATCCAGGGT GNCTAAAGAA TAGAAGTAGA GTTCCACCCA GGGCCAGAGG GAACAATCTG 60
GGATTCAAGC ACAGCAGTGG TGCCAACGTG AATCTACCTC GTNCTAGAGT CTGAGTAGCC 120
TAGTCTATCA CCAACACAG ATAAGACTGG ACAGGGGCTC CCAGGAACCA ACATCTAAGN 180
GGGGAGTTTG GAGAGGGGCT AAAAGAAAGC AGGTTAAGCC CCAANTGTAA CTGATTGATG 240
ACCAGGGATA ACTATTTACT AGTGCTTTTN TGGNTTTATT GTAACCTGT NACTTTCCA 300
GTATTTGTNA ATTNTTNNNC TTCTGNNTCT CCTGTN 336

SEQ ID NO:5777

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06855

SEQUENCE DESCRIPTION:

GATCTATTTA GGTGGAAATA GTTGTGGATG TACTAAGAGT AATGAAATAA AATTATAGCT 60
TCAAA 65

SEQ ID NO:5778

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06856

SEQUENCE DESCRIPTION:

GATCTTGNGA CGAACTGAGC CACGAGCGTG GCTTTAAGGG CCGTCCGAAC GCTGCAGGCC 60
GGCCAGGTCC CTGGGCGTCC AGGCCTGGCC TACGCACCAC TTTNTCCCTT AGCGTTTAAA 120
GGNNNNN 127

SEQ ID NO:5779

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06857

SEQUENCE DESCRIPTION:

GATCCTATGT GAAAAGAAAA GTGAAGCAAC TGAATCTTCA GCATGTNCTC ATCGGCGGAC 60
CTTCTTGTGT AATGTAAACT GTGCCATGTT ATTAAAAAAT GTGAACTAAG CTTCCAAA 118

SEQ ID NO:5780

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06858

SEQUENCE DESCRIPTION:

GATCTAGTAT AAACCTCACT TTACTCTTTT GGAATAAAGT GATTGGNTAG GACCCCATTG 60
CCAGGAATAA GANTCAATAT GCTGCTGAGA AGGAACCCAT GGTGTTGANG ATGTTGAAAA 120
GACANCACAG TCAGTAACGT GGAGAAATGG CCTGGNTTCA ANTCTTGGCT CTGACACTTG 180
GTAGGTATGA GACCTTGGAG ANGTTTCTGN NCCTCTCCAT GCTTCATTTT TNTGANGGTT 240
TATTGTGTGG TTTAANTTN 259

SEQ ID NO:5781

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06859

SEQUENCE DESCRIPTION:

GATCCTNAGC GGAGGTTAAG ATATTAAGTN ATTTCCATA TGAATCAGAA TTATATTGAT 60
TCTGTGCAAT CAAAACAAAA GGCAGANTAG AATGCTGAGA TTGGTTAAGT TTGCAATNAC 120
CATCTTGAAC CACAGATTTT TNCTATGTGT CATCAAAACA TCTAGTNNNG N 171

SEQ ID NO:5782

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06863

SEQUENCE DESCRIPTION:

GATCCTCAGA CCCTGCACAG CCCTGANTGG CTTACATCT NTTGGTCAGT GTCTTCATTC 60
TCCCCAGTCA GGGACCTNGG ATGTTTGTTA CTNCCAGAAG CCCTTNCTCA CCCN 114

SEQ ID NO:5783

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06864

SEQUENCE DESCRIPTION:

GATCACACTG TGAAGATACA CAGAGTCAAT AAATGTGCAC TGTAATGGAC TTAAA 55

SEQ ID NO:5784

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06865

SEQUENCE DESCRIPTION:

GATCCTGGAG AGCTCCCAGA CTTTGCTCAG CGTTCCTCANG AGGNAAGCTG GGAACCTGAC 60
CAAGGCTACA GCCCCAGACC AGAAAAGTAG CGGCGGCAGG GACAGCTGAC CAGACCACGG 120
GCAGGGCCTG CNTCCNTNTG CCCCTCAGCT CAGCCCCAGC AAGTGTGTGC TCAGAGCATC 180
TTTGTTCCTC ACGGTAGCAG CTACCTTCCC TCACTGTCTC AGGTGCCGAG AGGGGCAGGT 240
GCCAGCCTNC ACTGGCATCA NTGACAAGNC CANGGCANGN NCCACCNGNG GGGTCCTN 298

SEQ ID NO:5785

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06866

SEQUENCE DESCRIPTION:

GATCAATTGA TTGTTTAACA ATGGAATTTT GAGAAATATT TGGGTAGAAA AAAAAGTAGT 60
TTTAAAAGAN GAGAATCCAA CCATTAAAAC ATCAAAANNT GANATTNTTT GTAAATN 117

SEQ ID NO:5786

LENGTH:358

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06869

SEQUENCE DESCRIPTION:

GATCAGCATG TGGACTGCAC TGTTTACTTT TGGTTGGACT GGGACAATTT GGGGAATATC 60
TACTATGTTT ATTCTTCAAG AACCCATCAT CCCATTAGAT GGAGAAACCT GGAGTTATCT 120
CATTGCTATA TGTGTCTGTC CTAAGTCAGC ATTCTTAGGA GTTTATTATG CCTTGGNCAA 180
ATTCCATCCA GCTTTGGTTA GCACAGTACA ACATTTGGAG ATTGTGGTAG CTATGGTCTT 240

GCAGCTTCTN GTGCTGCACA TATTCCTAG CATCTATGAT GTTTTGGAG GGGTAATCAT 300
TATGATTAGT GTTTTNTCC TTGCTGGCTA TAACTTTAC TGGAGGAATT TAAGAAGN 358

SEQ ID NO:5787

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06870

SEQUENCE DESCRIPTION:

GATCTATGGG TAATTTTAAA TTTGCCTGT CAAGCTTAAN AGGGACTTGA CAACAGCTAG 60
GATNGAAATN ATTTCAACAC TTAAATATGC TTACTTTGTG CCGGACGCTG TTCTAAGNCT 120
TTNACAAAN 128

SEQ ID NO:5788

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06871

SEQUENCE DESCRIPTION:

GATCCACCTA CCTTGGCCTC CCAAAGTGCT GGGATTACAG GCGTGAGCAC AGTGCCCGGC 60
CTGTATTTGG TGATATTTTA AAAAATTCTA CTTTGACCTT AAGTGCTTCA AGAATTGTGT 120
TCAGTTAGTA GTCCTNTTGG TAAGACTAAC TTTCATATGC TATCTTTGCT CCATGAGCTA 180
TCATAGTGCT GTTTTCTTTC ATTACCCGTA AGAGTGGCTC TATCACAGCA TTTACTGTTA 240
AGGGCTACAG TTAGACCTCT TGTTAACTCT ACTTTNATTT GTGATGGCTG TGTTCACAC 300
TACCTTGATT TATAAATGTA NGTAATGTNG TTAAATNGN 339

SEQ ID NO:5789

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06872

SEQUENCE DESCRIPTION:

GATCCTNTGT ATAACATCGG GGCCTTGCTC AGGGGCTGTT GCGTGGTTGC CCTGCATTCG 60
CTCCGNCGCA CCGCCTTCCG TATCAAAACC TAAATAGAAG TTGTTGTTAC CGTGTGCCAA 120
TGTGTCCCAT GTGGGTTGTG CCAGGTAGAG AAACAGGAAG TCAATCATCT GTNACAGTCT 180
CTATTCTGTC GTTTTGCTCC TTGGTATTTN ATTTGCACTA TATTNAGGTG AAGCCTGTTC 240
ACTGTTTAAA NCCGGAGTNT TCTTCAAANG GCATGGNGAC CTGGTTCCAG TAAATGTCCC 300
ANCAGTGGGG GTTTTAGAAN GCATNNTTCA NTGACCNTNG NAN 343

SEQ ID NO:5790

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06873

SEQUENCE DESCRIPTION:

GATCATTATG TAGTTTCTGG ATTAAAAAAA TTTGTGTGTG AAGTTGCTTT GTAAAGTGCA 60
 TGTGGAATTA ATGGGACAGT GTGCCCTTTG TGTTAGATGT TAGAGCAAAA GAAAGGGCTT 120
 ATAGTGTTAG TATTGGAGCA CTTTGAAGAT AGATATTNC AGAAAAGATG TAGGATTTAA 180
 NAGTTAAATT TTAANTTTTA GAANANGATA TGATGGCAAT TGGNAATAGT CACAATGNNG 240
 TTCTTCATCC AGTNGGTGTT TAACCAGTGT TNATTTTGCC NCTGGTAATG TGGTNACCTG 300
 TGNGTGNTTT CCANTAGATG NGTTATGGGN 330

SEQ ID NO:5791

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06874

SEQUENCE DESCRIPTION:

GATCACCACA AAGTCTGGCT CAGTGACTAT GGCTTTGCAA AACTAAACA TTCCTGTCTC 60
 AAGTCCTGTA GATGGCTTGA AATAGTATAC ATAAGCATGC CTTATAACA TCTTCAGTCT 120
 TTATCAACTC TTTGGAGATT CAGCCATTCT TTTTGTACT TTAGGGAATT AAATCANNNN 180
 ATAATGTATA AATCTGAGCA TGGCCGATGG CAGAAGANAT TTTGTCATAC GTTTTTAAAG 240
 ANNTAAGANT GTATTATGTT TTAAA 265

SEQ ID NO:5792

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06875

SEQUENCE DESCRIPTION:

GATCAGAAAC CCTCATTTAA TATAGATTAT TTTGGAAATN AAAAAATTTG TAACAAGGTG 60
 GCTTCTTAC CCACCTAAA ATGTAAATAA AACATGCAAG CTTAGCTGC TCGAGTTCTA 120
 TAGTGTACC TAAATCGTAT GTGTATGATA CATAAGGTTA TGTATGCCCT GTAGCCGTTN 180
 NNNNTNTNT N 191

SEQ ID NO:5793

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06876

SEQUENCE DESCRIPTION:

GATCTTGTCT TTATCTACTT TCTCAGTAA ACTCTGGAAG AAAAAACTT CCTGGAAGTT 60
 TGGGCAATCA TTTGCCATTA TTNCCCTTC CTTGAATTC TTGATATCAT GAATACTGCT 120
 GTAGTATGGG ACATTATGTA TTNNGGTAAG CAGACTTCTC TNCTGTATTT GTNTTNGTT 180
 AACAGAATG ACAAGTTCCT TAAA 204

SEQ ID NO:5794

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06878

SEQUENCE DESCRIPTION:

GATCCACCC CAGGCCTTGC CCCTGCCCTC CCACGAATGG TTAATATATA TG TAGATATA 60
TATTTNAGCA GTGACATTCC CAGAGAGCCC CAGAGCTCTC AAGCTCCTTN NTGTCAGGNT 120
GGGGGGTTCA GCCTGTCCTG TCACCTCTNA GGTGCCTGCT GGCATNCTCT CCCNCATGCT 180
TACTAATACA TNCCCTTCCC CATAGCCATC AAAACTGGAC CAACTGGNCN NTTCTN 237

SEQ ID NO:5795

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06879

SEQUENCE DESCRIPTION:

GATCAAAAGC CAAGCTCTGT CCCCCTCAGC ACGTCACCCT CCCTCACTGT AATCCCTGAC 60
TGTTTTCTCT AAATGAAGAA TTATTTAGAG AATATAANTT AGAAGGGCCG CCACGTCAGA 120
TTTGCCTGAN TGGGAGCAGT CTTTCCAGCC TCGAAAAATG TTAAANCAAT ATGCAGATGA 180
CCTAGCACAA ATAANGANTG CTAGCAACCG CAAA 214

SEQ ID NO:5796

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06880

SEQUENCE DESCRIPTION:

GATCAAGTGA TACTAGGAAT ATAGGTACAA GTAAGACTGT CATTTNCATT GTTTTCTCTT 60
TGGACTGATT CTTTNCATTA TAACAGCGTT GTGAAGTAGA GGTGGGATTA GGAACCNTCT 120
GCTGTAATCA ACTCCCTNGC TGCCCAAACA CCAGCCTNAT ACACAACACC ANCAGGTCCN 180
GCNTNGN 187

SEQ ID NO:5797

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06882

SEQUENCE DESCRIPTION:

GATCTTTNAG TGCTTTGGGG ATGGGGTGGG CTGGGGTGGG TGGATGGGCA ACAGTGACTT 60
TAATTACCCT TGCTGCTCTG CATTTNCCAG TTTATNCTTT TGTTTCTTTT ATCTGACTGA 120
CTCTGTCAAA CAAGTGTCAA AGTTGTGTGT TAAAAAATGT TTAACAAAAA ANNTGTTGTA 180
ATGACACAAA GCCTTATGAN ANTNTTTATG GAGTTCAATA AAAGANGTAA GAGGTCAANC 240
CNNAGGN 247

SEQ ID NO:5798

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06883

SEQUENCE DESCRIPTION:

GATCTTCCCA ATATGAACAA ATATACTATG TATATNGTGT GTATTTCTAG AAATCAATGG 60
CAGCTGCTGA TGGNGTTGTA ATTAGAANTC TATATAGNNT ATAGAN 106

SEQ ID NO:5799

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06884

SEQUENCE DESCRIPTION:

GATCAGGACC TACGTTAAGG TGGATTTTNA ATTATTTAAA ATTCTGATTT TGTTTTATTT 60
TTAATTAATC TTTGGGGGAA GGATGGGAGG GGGGTGAGGG TTGAAGAAGT AAACATTGTA 120
CCTATTGGAT ACAATGTTTA ATATTTGTGT GATGGGCACA CTGGAAGCCC AAACCTCACT 180
ATTACACAGT ACATTCATGT AACAAGCCTG CAAA 214

SEQ ID NO:5800

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06885

SEQUENCE DESCRIPTION:

GATCCTTAAT GGTGGCCAGA GCTACCATGC AGTGCAAAAA TAAATTAAGT GAAAATGTAT 60
TATTGAGATT AACAGTGCAA GGCCAATACA TTTTATAAAT CTGTCAGTAT CTTTTTAAA 119

SEQ ID NO:5801

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06886

SEQUENCE DESCRIPTION:

GATCCTCAGT GAAGTGCATT CGGAATGAGG ATGGAAGTGT GTTAACACCA AATGAATTTG 60
AAGTCGAAGG AAAAGGAAGG AACGCAAAGA ACTGGAAACG GAATATACGT TGTGAAGGAA 120
CGACCCTAGG AGAGCTGCTN AAGAGTGGAC TTTTGCTCTG TCCTCCAAGA NTAANTCTCA 180
AGAGAGAGTT AAATAGCAAG TGAATTTCTA CTACCCTCTC AGTCACCATG TTGCAGACTT 240
TCCCTGTCTG GAGGCTCACC TTAGAGCTTC TGAAGTTTCC AAGCTCTGAG GTCAACCTNC 300
ACATTTTGGG CAATGGCATC TTCAAAAACA ATTAATTTN 339

SEQ ID NO:5802

LENGTH:381

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06888

SEQUENCE DESCRIPTION:

GATCTCCAAG CGAACTCAGC CTCCTCCCAA GCTCCCTGTG GGTCCCTAGCC ACAAGCTCTC 60

CAACAATTAC TATTGCACTC GCGATGGCCG NCGGGAATCT GTGCCCCCTT GCATCATCAT 120
 GTCGTGCGAG AAGGCGCTGG TGTCAGGCAA GCCAGCAGAG AGCTCTGCTG TAGCTGCCAC 180
 TGAGAAGAAG GCGGTGACTC CAGCTCCTNC CATAAAGAGG TGGGAGCTGT CCTCGGACCA 240
 GCCTTACCTG TGACATTNCA CCNTNACGNC CACCCGNCTA CTTTGCCTN CTTTGGATTT 300
 NCTTCAGGGN GAATNTTGAC CTAATTGTAT GACAATTTAC GTAGGGGCTC AGGTATTCAC 360
 TTCTGAGGTN TTAATTTTGG N 381

SEQ ID NO:5803

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06889

SEQUENCE DESCRIPTION:

GATCTACACA TGTTGCCTTG CATTTGTGGT AATCTACACC AATGGAAACA TGTACTACAG 60
 CTATATTTGA TTATGTATGG ATATATTTGA AATAGTATAC ATTGTCTTGA TGTTTTTCCT 120
 GTAATGTAAG TAAACTATTT ATATCACAAA 150

SEQ ID NO:5804

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06890

SEQUENCE DESCRIPTION:

GATCCTAAGC AAAATCGGAG ACTTGAACAA AGTTTGTTC TGGCTGTNTG CCCTTCCATT 60
 TTCTGTTCTC TTCTTTCTCC CTGGAGATGA NAGAACACAG AATCANATTN CCAACCTCTC 120
 TCTCCNATGN ACTCTCTCAT CCCCCAGCCC AGCCACATTT ACACATAGGG CAGACACATC 180
 TCACACAAAG GAAGTACCCC TAAAGACCTC ACATAAATAA AACTAGCAA ANTTCAAGTT 240
 GNNTCTTGGC AAANGTAGTN NTGGGTATGT NAGTCN 276

SEQ ID NO:5805

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06891

SEQUENCE DESCRIPTION:

GATCANGTTC NGGGCTCTNT CAGCCGCCAC CTCTGGGAAA GAGAAAAGNT TTGGGTCCAC 60
 TGAACATCAT GTTTGTAGAC GCTGACAGGT GGGGTCTTAA TNAGAGCCAA CACATGCTCA 120
 CTGCCAGCNC CTGCCCTGAG TACTGGGAAG TTTCTCCTGG AAGCCCTTGT GAGATGGCTC 180
 NGNNGGCTGG TATCCCGACT TGGAAGATGA GGAAACTNN 219

SEQ ID NO:5806

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06893

SEQUENCE DESCRIPTION:

GATCAGTTTT NTGCTGAAGG CACCTACTCA GTATCTTTTC CTCTTTATCA CTCTGCATTG 60
 GTGAATTTAN TCCTCTCCTT TGTGTTCAAC TTTTGTNTGC TTTTAAAAATC AGCTTTATTC 120
 TAAGCAAATC TGTGTCTACT TTAAAAAACT GGAAATGGAA AAAAAATTAA ATCTNNGCCA 180
 GGTCCCTCAA A 191

SEQ ID NO:5807

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06894

SEQUENCE DESCRIPTION:

GATCTGCAGC TTCGCGGGGA CAGAGATGTA ACCCAACTCG TTCACGGATG TNCCGCGCGC 60
 CGTGTCAACG GCTGCGGGCC AGGGGTACTC GGAAGGCGCG GGCAGGAGCC TNGCGAGGAT 120
 GCACCTTCCC CTGCNTTGA AAGGTAGAAC TGGGGAGTGC GGGAGGNTGA AGGTGGCCCC 180
 GAAAAGAACA CCTNTTCGCA ACCAAA 206

SEQ ID NO:5808

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06895

SEQUENCE DESCRIPTION:

GATCTAAATA TGTATTTTCAT AATNTTCCCA TAATAAATTA TATAAGGTGG CTAAA 55

SEQ ID NO:5809

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06896

SEQUENCE DESCRIPTION:

GATCTGGTTT NATTCCTGTA ATTCAGCCAC CTGATTTGCT TGAGGGGGNG GNATANTATG 60
 TGGGTTTTTG TACAAACATG TTTCTCAGTG TGTTGTTATT TTGGAAGAAA TGAGGGGAGG 120
 GAGTTTTGCA AGAATGNGAG AAAATGANTG AAGAAGGCCT AATCNTCTCT CTTTTTCCAG 180
 TGGATTNAAT GGNCCN 197

SEQ ID NO:5810

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06897

SEQUENCE DESCRIPTION:

GATCCAATGA TTAAATTTTT GGGAAGAAAA ATCCAGTGAT TAAAGTCATG CAAGGAGATG 60
 GCCTGGGGCT TGCTAAAAGT CAGGTTGCAG TTTCCATTGC ATTCAAGAAA ATCAGAAAAA 120
 TAAATACAAC TTTTAGAAGA AACTGAGTTT TCTCCCATTC ATGTTTAGCT ATTGGGGGGT 180

CTCATACTTC TGGACTTGCT TAGACCTATG CTATCTAATA TGGTNGCCTC TGCCCATCCA 240
TATGTGGCCA CTTGGGAACT TGGAAATGTN ACTAGTTTGT AATTAAGGTG TGCTNGTAAC 300
TAAATNCAC CCTGNGGTNT CAAAGGCTNN AATAANGNA NGGN 344

SEQ ID NO:5811

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06898

SEQUENCE DESCRIPTION:

GATCTATCTC CCTGTAGGT GTNCTTTTTC TCCTCTTTAG AAAGNAGCCA AGGNAACCAG 60
GGTTCTCTCA AAGTGGAAAA TACTGGAACT NATGTACTGN TATCATAATG N 111

SEQ ID NO:5812

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06899

SEQUENCE DESCRIPTION:

GATCCATTGC TTTTAGACAG GACTGGGTTT TGCTGTCCAA TGATATACAN TAATAGTNCT 60
TCTTACAGCT AAGCTGGCCC CAGCCTTGTC TTGATATTAA TACATGAANT NTTTATAATT 120
GTCTCATTGT CTCATTTAGA AACATCCANA TTTNCTGCT GTGNCTATN 169

SEQ ID NO:5813

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06900

SEQUENCE DESCRIPTION:

GATCAGTAAC TTTATCTCTA TCCTTAATGA ACATTTGTTT TATTGGTGGC TGGAATATT 60
TCTATTGTAT TTCTGTGTAT ATNNTNAATA AAATAATTTT TGGCCTCTNA AA 112

SEQ ID NO:5814

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06901

SEQUENCE DESCRIPTION:

GATCAGCAGC TCGGAAGACT CAGATGCCGA AAACGCTCC TCCCGAGAGC TGGATGACAG 60
CAGCAGTGAG TCCAGTGACC TCCANCTGGA AGGCCCCANC ACCCTCAGGG TCCTTTGACG 120
AGAACCTTGC TGACCCCCAA GCAGNAGACA GACCTCTGGT TTNNTTTGAC CTCAAGATNG 180
ACAATGAAAG TGGGTTCTCC TGGGGCTACC NNNACCCNTT TCTAATTTAG TCTCTNGAGT 240
CCCAAAAAGA AGTNCAGGCA GAGCCATCTN N 271

SEQ ID NO:5815

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06902

SEQUENCE DESCRIPTION:

GATCATGAAA AGAAAAATNA ATGGCAGGAA AAAAGTTTGG TCCTTAATAT ACTTTGGCCT 60
AGTNAATAA TGTGCCTTTT TGGTGTGTTT TGTTCATCAC TACAAGATAA AAAGGAAACA 120
TTACANCTCA AGGCTTTAAA AAGTTCATTT ATTGAAAATC ATATGTATAG CCTAGCATAC 180
GAATGTGCAG TTTTAAACAC ATAGCTTCAA GCCATTTCTG NAAGCATNCA CCGGGNGCTC 240
TGCTCAGNTA GAGTCAGNCT CCNNGTCCA GNCCGACTGC GTGCGGGGGA CCAGCGGCCG 300
CGTTNNATGG NGGGNCN 317

SEQ ID NO:5816

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06903

SEQUENCE DESCRIPTION:

GATCTAGGAG AGGCGGCTCT GAACGAGTAC CTGCGGGTCA AGACAGTGAC CTTGATTAC 60
TGAAGAAAGG TCTTTNTGAG AAGAAAGTCC CTGCCCCCTC CTCGTGGCTG GGGTCCCCTC 120
CCTCTTGAGC CTNGGTGCAC AGCANCTCCC ACCTGGGGGG CTAGTGGAAG CCCTCCTGCC 180
TGCACACCAT GTCTGCATCT TGGACGNCCT CTGTCCAGTC AGAAGCAGCC CTTGGNTNNG 240
GGTGAGNTGT GNCCCTTCCA GGGGGAATAA AGCTTCTGAA GAGAGACCGT CAAA 294

SEQ ID NO:5817

LENGTH:263

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06904

SEQUENCE DESCRIPTION:

GATCAAAATC AATGGGAAGG TGCTGCCAAG GTGTCCTAAG CTTCTAGGAT AATATTNATN 60
CTCTCAGGGT TTTGGAAGT CTGCCCCAAG TCATAGTTCT CAGTCCTGGG TGTGAGTCAG 120
ANTCACCTGT GGAGCCTGGC AAACCTTACA GACACCCTGG CTCCAGCCCT GGAGATTTTN 180
ATTTANTGGA AATATCACTT AGAATTCTAT TGTAAGCAAT AAAAGTNTAT TCTCACTAAA 240
CTTTCAAAAA NTNGNGNTGN NNN 263

SEQ ID NO:5818

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06906

SEQUENCE DESCRIPTION:

GATCTTTCCC NTTTGATGT GCGTGTGTGT CTGCNTGTGC CATGTGCGTG GCACGCATAT 60
GAAGTGTGTG TGCGTGTGAA CGGCTTTGGG TCCTGCTGGT TTNCTGTGA GCTNCAGTGT 120
TCTGTGGGTC TGTGGTATCT NACACTGTGG NCATTAATGT ACTTCTTGGA CATTTTAATA 180

AATTTTNNAA CAGTTCAAA

SEQ ID NO:5819

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06909

SEQUENCE DESCRIPTION:

GATCANAAAA CCTAAANTCC ATAGGNACCC NAAATCCTCA CAGTTACAGA GACACCAAGA 60
AGANTCTGGA CAAATAGGAC TTGCTAAGGC CTCCACAGTT TATN 104

SEQ ID NO:5820

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06910

SEQUENCE DESCRIPTION:

GATCGAACGG ACTNTAAATC CGCTCTTTAT CGAAAGCTAA GCAAGCTGTG GCTTTTTTCC 60
AACTCCGTGT AACGATTCTA AGTGTAGTGT NGTAGGACCC CGACGGGTNT GGCAGCAACT 120
GCCCTGGAGC CCCAGCCCCT GCTTCCATCT NTNCTGTGCG CCCACAGTA GACGTGCAGA 180
CGTCCCTAAG AAGGTTCTTN AAGATGTTTA TTTATATAG TCCTNTTTTA CTGGAAGACG 240
TACGNATACT CCATCGATGT TGTATTTGGN GGGGGGTGNG GAATTCTTGT ACGCAGTTTT 300
CNTTNGGCTT TACGAAGCCG GTNAANNGAC CGTTTGAAN TAN 343

SEQ ID NO:5821

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06911

SEQUENCE DESCRIPTION:

GATCACTTGA GCCCAGGAGT TCAAGACCAG CCTGGGCAAC ATGGCTAATN AACACTAAGC 60
ATAGTTTAA TGTCTTTNAT ATTAAAGACT TTCTCAAATT CTAA 106

SEQ ID NO:5822

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06912

SEQUENCE DESCRIPTION:

GATCCATTCC AGCCACTCGG GGCTGACAGC GGCGACCCGT TCCAAAGTAA AAAGGGGTTT 60
GGGGACCCGT TTAGTGGAAA AGACCCATTT GTCCCCTCCT CTGCAGCTAA ACCTTCTAAG 120
GCCTCTGCCT CGGGCTTTTG AGACTTCACC TCTGTAAGTT GAGTCCTCCG NCTCCGGGCC 180
ACCCCACTCC CTTCCGCTTG CAGCTTCCCT GGGATTTTNG TNTCCTTTTA AAGGCAAACC 240
TCCCAGCTTC TTTAGCCTCT TGGTACCTNA CACTCTCTGT CCNTCGCGTT ATTNATTCTA 300
CACTGCCACT TCTGTAAGAA AAACAGTTN TCAATAAAAA AAANAGNTGN 350

SEQ ID NO:5823

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06913

SEQUENCE DESCRIPTION:

GATCTCGTCT CTAAATAAAA TATACAAAAG AGTATTGGGA GGGGGTATGA AGAATGTATA 60
GGGCAATAAT TGAAATCTGT TGAAGCTGGG TACACAAAAG TNCATTATGT TGTTTCTCTA 120
CATTTATATC TATTNTNAGT NNTTTNATAT CTATTTTNAN TTN 163

SEQ ID NO:5824

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06915

SEQUENCE DESCRIPTION:

GATCAGTGGT TTCCATTGTC AGGACTGGGC ATGGGGAAGT NTGGCTGTAC AAGAGGAGCC 60
CAAGGGAAGT CCTTGGTGGT GATGGAAGT CTCTGTATCT CAAATGTCTG TATCTTTAGA 120
AAGAANTCTA CATATGTNAT AACACTGCAT AGAAATATAT ACATGTACAC ACAAGTGAAA 180

SEQ ID NO:5825

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06916

SEQUENCE DESCRIPTION:

GATCAGTGAA ATCCTAGGGT GCTCTATGAG ATTGTACTAG GCCTATNAAG AGTGGTAAGC 60
CAAATAGGTC TCCATGGGAG ATACATTATG TAAATAAATA AACAATGGTT TGCTGGTTCC 120
TGTTGGTGTG TCCACAAGTA GGTAANCATG TTAAAGGAA CCCGGGTTCT TAGATTTTNT 180
NAGACTTTTT AANCTCAAGG CTGNGCATAA GTNCTTGAAN ATAAANTGCT AATNCTTAAG 240
TGTCAAA 247

SEQ ID NO:5826

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06917

SEQUENCE DESCRIPTION:

GATCAAGAAT TGCAAAAATG GAAAAAATTA ATGAAAAGGC ATCTGATAAA TGTGGACGGC 60
TCCAAATCAT GTCCTTAGAA AATCTTTCTA TTGAAAAGGA GACTAAATTG TAATGTGATT 120
CACAATGTAA CAATATAANN CTNNGTTTTT NTATAATTNT NTAANAGTN 169

SEQ ID NO:5827

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06919

SEQUENCE DESCRIPTION:

GATCACCTCC GGGCACAGGA TGCAGGAAC TGTGACATT CAGGGATGTG ACCATAGAAT 60
TCTNTCTGGA GGAGTGGGAG TTTCTNAACC CTGCTCAGCA GAGTTTGTAT AGGAAAAGTNA 120
TGCTAGAGAA CTACAGAAAC CTGGTCTCTN TGGGTCTTAC TGTTTCTAAG CCAGAACTGA 180
TTAGCCGTCT GGAGCAAAGA CAGGAGCCCT GGAATGTGAA GAGACATGAG ACCATAGCCT 240
GGGCGACAGA GCGAGACTCC GTNTCAA 268

SEQ ID NO:5828

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06920

SEQUENCE DESCRIPTION:

GATCTGTGCC CAGAGACGGG ACTGGGAGGG CCCACTTCAG GGTTCTCCTC TCCCCTCTAA 60
GGCCGAAGAA GGGTCCTTCC CTCTCCCCAA GACTTNGTGT CCTTCCCTC CACTCCTTCC 120
TGCCACCTGC TGCTGCTGCT GCTGCTAATC TTCANGGGCA CTNCTTGCTG NCTTTAAGTC 180
GCTGAGGGAA AAATAAATGA CAAATTGCTT GNGNCCAA 219

SEQ ID NO:5829

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06922

SEQUENCE DESCRIPTION:

GATCATAAGT NCTTCTATCT GCTGAGCTTT ATTTATTNAT TTTGGACAGA AAGTTTGGTG 60
GGAAGGTTGC AATAAAATCA GAATCTCTCT TGTNTGAATT ATGCAGTTTA ACCCTGTCCA 120
TGGNNNGGCT GTACTCTATT CTNACTGTAT TTN 153

SEQ ID NO:5830

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06923

SEQUENCE DESCRIPTION:

GATCTTGT TTATTAATA TGCCAGTTTG TATTNCCTG CCTTGGGATT TTTTGTGTC 60
CGCTGTACAG TATTCTAAGG GAAAAAGAAA AAGAAAGATG TGTAAGTAA CAGAGAGAGG 120
TGGCTATGGT GTAGAGACCT CTTTCTAATA AAGAAATGAA AATATGTCTA AA 172

SEQ ID NO:5831

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

01725

CLONE:HUMGS06927
SEQUENCE DESCRIPTION:
GATCCCAGGG AAGACGTCTC TCTCNGCATC CCAAGCCATN CAGCCCTTAT CGCTGTACCC 60
AGTAAACCCT CAATAAATAT CTTTNTCAGC CAGAAA 96

SEQ ID NO:5832
LENGTH:228
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06928
SEQUENCE DESCRIPTION:
GATCACTGTA TTAATTTTGG TTTATCTTGG CATATATNGT TCAGTTTGTN TTTATTTTAA 60
ATTTTNCCTT TTTTCCGAT TAGGCTTTGG TCAGCATTTT NCATTAAAG AAAAGTAACA 120
CTCCCATCCA CTCATAAGCT TGGTACAAAA ACTTCTCTGG CAGTTACTTT TGAAGCTTCA 180
CTCTGCTTTC TGTATAAAGG GCAGTCTGTG GTCACGCAAG ACTTTAAA 228

SEQ ID NO:5833
LENGTH:109
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06929
SEQUENCE DESCRIPTION:
GATCTTTCTG CTTTCGAAGG TATANTGTAT CTATTTCTGT CAGGAATNAT ATTCCAAAT 60
GAAAATGTAA AGAACATTGG GAAATAATAA ACTTTCCTTT CAAAGTAAA 109

SEQ ID NO:5834
LENGTH:160
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06930
SEQUENCE DESCRIPTION:
GATCTGTGTT TGGAAGAAAA AGAAGGAAAC TAAGACGTGC GAGGGNAAGA AAAAGGAAAA 60
CCTAATTAAA AAATATGTAT CCTCTATAAT NAGTTATNAC AGCCATTTGT AATGAATTG 120
TCGCAAAGAC GTAATAAAAT TAACTGGTAG CACGGNCAAA 160

SEQ ID NO:5835
LENGTH:77
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06931
SEQUENCE DESCRIPTION:
GATCGACCGG CACCGCTGTT GCCTCGTAAG CCATAGCGCA TGC GCGCTCT CAGAATAAAC 60
AGGCCCTGCC TGGGAAA 77

SEQ ID NO:5836

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06932

SEQUENCE DESCRIPTION:

GATCANATAA CAGAATGCAC CAGTCATCAG CTATTCAGTT GGTAAGCTTC CAGGAAAAAG 60
GACAGGCAGA AAGAGTTTNA NACCTGAATA GCTCCCANAT TTCAGTCTTT TCCTGTTTTT 120
GTAACTTTG GGTTAAA 137

SEQ ID NO:5837

LENGTH:402

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06933

SEQUENCE DESCRIPTION:

GATCCAGCTT CATTCAACAT TACTACCACT TATTTGATAA TNATAGAACC CAACTAGGCG 60
CAATTTACAT TGACGCGTCA TGCCTTACGT GGGAAGGACA ACAGTTCCAG GGGAAAGCTG 120
CCATTGTGGA GAAGTTGTCT AGCCTTCCGT TCCAGAAAAT TCAGCACAGC ATCACCAGCG 180
AGGACCATCA GCCCACTCCA GATAGCTGCA TCATCAGCAT GGTTGTGGGC CAGCTTANGG 240
CGGNTGAAGA CCCCATCATG GGNNTNCGCC AGATGTTTCCT ATTAAAGAAC ATCAACGATG 300
NTTGGGTTTG CACCAATGNC ATGGTTCAGG CTCGTCCTGC NCANNTTTGG CTGNCCTNCT 360
TTGCAGNTTG GGNACTNANG NTGTTTGCTT GCTGCCTTTT GN 402

SEQ ID NO:5838

LENGTH:261

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06934

SEQUENCE DESCRIPTION:

GATCTTCGTA ACGGCCTCGG CACGCTCCAC ACCCCTGGAG TCTCCCGAGG CCCCCATGTG 60
CTGCTGAGTG GCCAAGATGA TGCCAGGCTG CCCTATACAC TGGGGGATTC TGCCCTGGCC 120
CATGCACACC CGTCTTTCCA TGATGGCAGA GACATCCAGT NAGGACCTGA CCCGTCTCTG 180
TCTGAGGCCG GCTCAGCAGT GCAGCCTGGT CCCTGGGGGC TGGACCCAGG CTCCTAAATA 240
AACCAGCAAC TNCCTCGNAA A 261

SEQ ID NO:5839

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06935

SEQUENCE DESCRIPTION:

GATCTCGGCT CACTGCAACC TCTGCCTCCC GAGTCCTGGT TCAAACCTATT CTCCTGCCTC 60
ANTCTCCTGA GTAGCTGGGA CTACAGNNAC GAGCCACCAC ACCCTNCCCC CGNATCCCCT 120
GCCTCCATCC TAGTAAAGAC TCCTTGCTAT GCTGCAAA 158

SEQ ID NO:5840

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06936

SEQUENCE DESCRIPTION:

GATCAGTTTT GCCAAGGGGC CAGAATTATT CCTTGTTAGA ATTGCTCCAG TTCAAGTCTG 60
CTGCTTTCCT ACAGTTTTTC AAATTTTATA ATGTATTAAA TACAATAAAC TCTGTTTAAA 120
AAATAAA 127

SEQ ID NO:5841

LENGTH:232

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06937

SEQUENCE DESCRIPTION:

GATCAAAGAA AATTATCTC TTTTATAAA CTTAAGGACA GTTGCAAAAG GCTTCAAGGA 60
ATTATCTCA ACATTATTCT TTCTATGTCC TAACTAAATT CCTCAACTGT NATGANTTTT 120
CCANCTACTT CTTGAACAGT GGTCTATNCT GCTACATGAN GATGAATACA AACAANNTTN 180
TTGTATAACC TACTATNCCA GTNCTCCTGT GTCAGTCTTG CCTATGGATN TN 232

SEQ ID NO:5842

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06938

SEQUENCE DESCRIPTION:

GATCTCCAGN GCGCAGTGGG TTGGAGGAAG TACTACGTGA CAGCTGGGGG AGCCTAGCCC 60
TTGTNTGGGN ACTCACACAT CCACTCTAAC CCTTCTNACC ACAGGTCCGG CCGCCCCATT 120
AGCTTCATNG TGGTTTTTCAT CACCCCCAAC CCCCTGAGCA AGATTTCCTG GGTCAACAGG 180
TTACATTTGG CCANAATCGG ACTCCGTGAG TATAGCCCCA GGGAGAGTGC CTNAGGGGGC 240
AGNNGGTGTGG AACGNGNAGG TTTNNGGTGA GTNNGGTAC AGAATGTNGN 290

SEQ ID NO:5843

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06939

SEQUENCE DESCRIPTION:

GATCTTGTGA CATTCTTCT CCTGGACAAT NAGTCTCAGG AGCTCCTCAC CAAGCACCTT 60
GTTACCCCCA CCCCTGCCCC CAAGAGAAAA CGCACGTAA CTGTAATTTN TCCACTACCT 120
ACCCAAATCC TATAAACTG CCCCACCCCA TCTCCTTTTG CTGACTCCAG GTGATTAAAN 180
AACTATTGCT CAGGGAAA 198

SEQ ID NO:5844

01728

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06941

SEQUENCE DESCRIPTION:

GATCTTTTT CTAACACATA TTTGAACTGA ATAACAGACT TAAAGAAAGC CTTTGTTTAC 60
ATTGCTATTT ACTNTTGTGT TTGGGGGAAA ATACGAGGGA TTGATTTTAA ATAAAAAACA 120
TTCCNTCTTT CATTNAATAT CAGTATCAAA AGAGGNGAC AAACATCTAT CTTTCTCATC 180
TNTATTNAAG TNCCTTTTG TANTGTAGTA TCAANGTTT TTAGGTGNTG CAAGGTTTTA 240
CAANTCATT GTGGN 255

SEQ ID NO:5845

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06942

SEQUENCE DESCRIPTION:

GATCCCTCAG AAGACTTAAC TTGGCTGGAG TGGGAGGAAC TGAAAATACC ACTCCATGGT 60
ATACCCATAT ATCCAAATCG TAGAGAACGA GAAGCTATGA TTTTATCATC TTATGCTGGA 120
ATCTTAATGA ACAGTATCCC GATTGAGGAA GTCTTTAAAA TTTATGGGGC TGATTCTNCT 180
GNCGATTCTG GTACCATCAA GTTCCCCGA GTTTCATCTN TCCGNTCTC CTNCAACCNC 240
TNTTGCCATG TTAGCAGNAN CNANAGCAGC AGCATACGGC CGCAAACNGG GTGTCNAGTC 300
AAGNANGGTT GCAGCAGN 318

SEQ ID NO:5846

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06943

SEQUENCE DESCRIPTION:

GATCGGAGGT TGGGTTCCCTG ATTAACTTC ACTGTGTGTT TTCTATNTCG GAAA 54

SEQ ID NO:5847

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06945

SEQUENCE DESCRIPTION:

GATCAGAGAN TTACCACCCC TGCTTNGAAG CAGTGTGTT GTATTCCCAC TAAAATAAAC 60
CAACTGGTAT AACATTCCCT GGAGCTTAAT AAGCACTCAA TAAATATTG TNGANTAAAN 120
ANAGAAAN 127

SEQ ID NO:5848

LENGTH:212

TYPE:nucleic acid

01729

TOPOLOGY:linear

CLONE:HUMGS06946

SEQUENCE DESCRIPTION:

GATCTGCAGA TTCCAAATGG GAATAAGCTC TATCATATTC TGAAACAAGA ATTAGAATGN 60
CTTGAGAACG GGCAAATAAC AAAGCAAACC AATATAATTA TATGGTCATT CTGACCCAG 120
CTCTTATACA NNTTATACAT GTATTTTGT GTATGTTTGT GAGAGTTGTA TGTATGTGAA 180
TGNGTGTGAG TGTGTATTCA CATAACATA TN 212

SEQ ID NO:5849

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06947

SEQUENCE DESCRIPTION:

GATCATAAGG TGAAGTCCCA CAATAGGCCG TCTGCAAGCT GAGAAGCAGN GNAAGCCAGT 60
CTGAGTCCCA AAACCCTAAC AGTAATCCTT TNCTAACGTC AGGNTGCGTA TCGACCTGTG 120
TGTGCACATT TGCTGTGCAG AGTGTGCACT GCTGAGGAGA ATGGTGCCCA AGAAGGGCAC 180
TGTTTGNCCC AAANTNTTNC AANTAANCAT TGN 213

SEQ ID NO:5850

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06948

SEQUENCE DESCRIPTION:

GATCATCTTG AATTACTGTG GGATGTANGT TTCAAAATTT TCAAATAAAG CCTTTGCAAG 60
ATAAA 65

SEQ ID NO:5851

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06949

SEQUENCE DESCRIPTION:

GATCACATAC TGCAGTCCAG CCTAGGCAAC GGNGCAAGAC GTCATCTCAA GGAAA 55

SEQ ID NO:5852

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06951

SEQUENCE DESCRIPTION:

GATCTCCCA AATCCATTGN TINTACCAGG CCCTCCAGA ACCTCCTCAG TTCCTTACA 60
GTGCAACCCT NTGTACTTGG CCCGCAACCC ANTAGTATTG TGCCTCACTT CACCTTCCAT 120
GGGCAACTGC CCTCCCTTCT GGACATAAAA CCTNATATNT TAAATAAAGT TGAANTATGN 180

NAAGAN

186

SEQ ID NO:5853

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06952

SEQUENCE DESCRIPTION:

GATCAACTGA AAAAAGCATG ACTTTTGAAA TCTCTGAATG CCTTGGTTCT NAGTATTATC 60
ATNCTTNATT GAATTTATTT CTNATTAAAN TATGTAGTTT TN 102

SEQ ID NO:5854

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06953

SEQUENCE DESCRIPTION:

GATCATGTGG AGTGAAAGGC AAATCTTACT GCTTAATGTA TAAACTCTCA CCACAGGAAG 60
CATCGCTGTT TCCAATAAAT ATTGCTGAAG ACAGAAA 97

SEQ ID NO:5855

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06954

SEQUENCE DESCRIPTION:

GATCTGTCCA GTTTGTGTAT GAAATGGATT TGATAAAGTT TTTGCTAGTT ATTTACTACA 60
TTTTGGGATT AATAAGTGAT TTANATGCAT ATNTCCTGT AAATCTACAG TTTTTTGTAC 120
AAGATATTCT ACAAGTNATG ANGCTAAGGG AAGAAAATGC CAAAGATACC TCTAGTTATG 180
TTGANCACAG CCAGCACAGT TTCGACAGGT CAAGGAAGAG CTGTTTCAGT AAAGANTGAN 240
GTGAAAACNC TTATTTNGGA AANTGTTTCT CANCANTAAN CTGTATAGTT GTTTCTCTNA 300
NACCCCN 308

SEQ ID NO:5856

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06955

SEQUENCE DESCRIPTION:

GATCCCAAGT GTTTAGAAAA CTAAGTAAAC TTTGTTGTCA AGCAATTTGT CCATGTGGAA 60
AGAATTTAAA GAGAAGCTGA ACAATGGAAT AAACAAATAA AGCATGTTTT TNNATCTTTC 120
CCATTAAA 128

SEQ ID NO:5857

LENGTH:143

01731

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06956

SEQUENCE DESCRIPTION:

GATCTTAAAA ACTGCAGTAT TCCCCCATTT TANTAATGAGA GTGTGGGGCT GGCAGGGNTT 60
GGTTGGAGGG AGGAGAGAAG ACAGAGGAGC ACTTAAGGTG CAAAGCAGCC TATTTTTCCT 120
TCAATAAAAA TTGTTAAGGG AAA 143

SEQ ID NO:5858

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06957

SEQUENCE DESCRIPTION:

GATCCGTGGA AATAGCCTGG CTCCCTCTTA CCCAGTAATG AGGGGCAGGG AAGGGAACTG 60
GGAGGCAGCC GTTAGTCCT CCCTGCCCTG CCCACTGCCT GGATGGGGCG ATGCCACNNN 120
GTCATCCTTC ACCCAGCTCT GGCCTCTGGG TCCCACCACC NAGCCCCCG TGTNAGAACA 180
ATCTTTGCTC TGTACAATCG GGCTCTTTAC AATAAACCT TCCTGCTTNC ACAA 235

SEQ ID NO:5859

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06959

SEQUENCE DESCRIPTION:

GATCCAGTAC TATCAGAATG ACATCCCCTA CTGAGGAGGG GACCTTCGAG GGCCTCTGCC 60
CCATGTGCCC TCAAAGCTGT CCCACAATCA TGGAGCCCTG CNACCTNCCT GCCCTGNCGN 120
CACATGCAGT NGAGGAGAGG CCTGTGGCCA AAGAACCCTG TAGCGGCTCC TNGGGCAGCA 180
CGTGGNTGGC GCACTTTGGT AACGCCATGG GANTGCAGCG NCCANTCGAA TGGGATNGGT 240
GCTGTTNTAT GCACAGGN 258

SEQ ID NO:5860

LENGTH:309

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06960

SEQUENCE DESCRIPTION:

GATCAGATTA CCAGGAACAT AGGAGTGGAT TCCTGCCCCA ACCAAACCGC ATTCGTGTGG 60
ATTTTTTAT TCAACTTAAT TGGCTATTCC AAAGATTTT TTTTCCCTAT TTTTAACGAT 120
TGGAGCCCTT AAGATGCACG ATGGAATTGT GTTTTGCCTT TTTNGGNAAG NGGGAGCAAA 180
GCGGGGNCCT GNGATAAAC GNTTGGAGCA ATCTCCTTNG GNAGGGATTG CAGCANGGGG 240
TTAGNTNGGT GAAACATTTT AAAGGGGGGA AAGGGGGGGG GTTTTTTTTT NAAANTGGGN 300
TAAATNCGN 309

SEQ ID NO:5861

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06961

SEQUENCE DESCRIPTION:

GATCATGTGG ACCAGAGCAA ANNAAAGTTC AGTTTGTGTC ACAATTCATT GCCAGACTTC 60
ATTGGAATGC TTTGTTTGAT GATGTATGTN CATTCTCAGC TTTATTTTCA GATGCTTAAC 120
TGGGCAATGA AGTCTAACTT CAGGTTGAAC TNTCTCCNGN NTAANCTCAG GCTAAATGN 179

SEQ ID NO:5862

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06963

SEQUENCE DESCRIPTION:

GATCGTGGTG GTGGGGACTG GAGACCGGAC CGAGAGGCTG CAGTCCCAGG TGCTTCAAGC 60
CATGAGGCAG CGGGGCATTG CTGTGGAAGT GCAGGACACG CCCAATGCCT GTGCCACCTT 120
CAACTTCCTG TGTCATGAAG GCCGAGTAAC TGGAGCTGCT CTCATCCCTC CACCAGGAGG 180
GACTTCACTT ACATCTTTGG GCCAAGCTGC TCAATGAACC GNCAGGAACT GACCTGCTGA 240
CTGCACTCTG CCAGGCTTCC NAATTGCTTT CANTCTTATC TACCCTTTTG GGACTTATNT 300
NGGCTTATCA ACATAATAAT TTGATACAAC TNNTTCCCAA A 341

SEQ ID NO:5863

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06964

SEQUENCE DESCRIPTION:

GATCTGGTGA AAATAGGATT ACATTGGAGC CAATTGAATA AATTTATTCT TTCAATCAAA 60

SEQ ID NO:5864

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06965

SEQUENCE DESCRIPTION:

GATCTGGGAG GTGGAAGCCA GGCCAGAGGA CTTGGGGAAA ATAAGATGGA GGAAGGAAAA 60
AGGGAGAAGC TGAGCCACAG CTTAACTCCT ACAGAGTGAA ATNAAAACGG GCTGAAAATA 120
CCACCCAGG AGAGGACCTC GCCCCAAGCA AGCCAGTGAG CAGCCCTGCC AGACTACTGC 180
CAGACTGAGA AACCAGAAG CTGGTAGTCA TGTGGGCTTG CNTTCTNTGC CAAACGACTG 240
GGAAACAAA ATNAGCCAC CTTGTGTTCT TCCTAGCTCC ACCCTCCCCG TGCTGCTGTG 300
TTCTGCTCCT TCCNACGGT TTCCCTGCTA TAGTCCCAG CTGCTTGTA CGGGGCCNN 359

SEQ ID NO:5865

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06966

SEQUENCE DESCRIPTION:

GATCATGGCT AACGGGCACA GGCTTTCTTT TTTGGGTGAT GAAAATATTC TAAAATAACT 60
GTAAAAATAT TGCACAACTC TGTNAACATG TGAAAACCCA CTGAACTGTA TGCTCTAACT 120
GTATGAATTG TATGGTATTT AAATTTNACC TCAATAAAGC TGTATCAAA 170

SEQ ID NO:5866

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06967

SEQUENCE DESCRIPTION:

GATCAGAGCA AGAGAACTTC CAGAGATAAT GGATAGAATG AAAGAATATA TATCTATATA 60
TATTTAACAT GTTGTTTAGT AATCCCTATT TTAATTCAAT TCTCCATCTG TAAAATATTA 120
GCTAACTGAA TTATTTCTGT GTTCTACTCT GGGCTCTCAC ATTAAACTC TGTCAAAAA 180
GTTTAAA 187

SEQ ID NO:5867

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06969

SEQUENCE DESCRIPTION:

GATCTTGAC TTCCAGCCT CCAAACTGT GAGAAATAAA CTCCTGTTGT TTGTAAA 57

SEQ ID NO:5868

LENGTH:289

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06971

SEQUENCE DESCRIPTION:

GATCATGGTC AGCTCACACC CTAATAAGTC CACATCTTCT CAGTGTTTTA GCTGTTTTTT 60
TCATTAGGNT TCCTTNTATT CTGTACCTTG CAGCCATGAC CAGTTCTGGC CAGGAGCTGG 120
AGGAGCAGGC AGTGNGTGGG AGCTCCTNTT AGGTAGANTT TAACATGACT TCTGCCCCAG 180
CTTNATCTGT CACACANGTN TGTGGCACCN CTAGTGCTAC TGCTAGGATA TCACTTACTC 240
AGTTAGATTT TTCCNAAAAA NTAAGCTTTT AATTNATTTC TTTGGTGTN 289

SEQ ID NO:5869

LENGTH:346

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06972

SEQUENCE DESCRIPTION:

GATCTCCTCT TCCACCTCTT CCTGGTTCCT TTGCGGGGAA AATTGCACTA AACAGAAACC 60
 TTTTCTTAAT CCATGTTGGA AGGAAGCAAC AGTGAAGTCT ACCTGTTCTG GAGTTCCTCT 120
 GGGTCTGCAG AAGGTTGGGA ATTTAGAAAA TAAGGCTGTT CTTTCATATT TTAATTTAAT 180
 CTCTGTCAAT GGCCATCCCT CCCACAAAAA AACGTGGGTT AAGAGAACTT GCAGACTGGA 240
 TATGCAAGCA AACGGGCANC TCTGGAGAAA ANTANGGNAN GGAATGCTGA CTTTCTCTTT 300
 CTNTCTCTTT GTCCCCACAC CNNTTCCCAN CCCAATTACT GGGGTN 346

SEQ ID NO:5870

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06973

SEQUENCE DESCRIPTION:

GATCCCGACC CTCACCAGTC CCATTTCCTT CCCTCCAGCT CTGCTTAGGC ATTTTGCCCC 60
 TCACCCCAAT GTTCCACACC ATCGACAACC AAGGGGTGAG GTGGGGACAG GCCTCAGCAG 120
 GGAATGGGGC GTATATGTTA GTGTTGCTGC AACAATAAAG CCTGTTGCAT CTCTCATGCC 180
 AGTGAAG 187

SEQ ID NO:5871

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06975

SEQUENCE DESCRIPTION:

GATCTNGGAC TTCCAGAAAA CAGAACTGTG AAAAGNCAAG TTTCTGTNGT TTAAACCACC 60
 CAATCTGAAG TATTTNGTTA TGGCAGTCCT NGGCAGACTA ATACAATATG CAACACATTT 120
 ACAATANATA TACAN 135

SEQ ID NO:5872

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06977

SEQUENCE DESCRIPTION:

GATCAAATAA TGATGTTAAA TTCTTAAATC ATATTTGCTA TGCAGCTGAA GATGATATTT 60
 TGATTTGTAT TTTGGGGGTA CCTGTGTTGA GTTGATAAAC ATTTCCATCT TCATTAAAC 120
 TGCTTCCAAA CTAGTAAA 138

SEQ ID NO:5873

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06978

SEQUENCE DESCRIPTION:

GATCGGCGGG GCACAGTGGC TCGTGCCTGT AATCCCAGCA CTTTGGGAGG CCTAAGCAGG 60

CTGGTCGCTT GANCCCAAGA GTTCGAGACC AGCCTGGGCA ATACAGCGAG ACCCCATCTC 120
AATTATATT ATTTAAAAAN TAATTAATGT AAGAGNAATT AAAACAGATT TTAAANNGG 180
NNAAANNAN 189

SEQ ID NO:5874

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06979

SEQUENCE DESCRIPTION:

GATCTGACTC TTCATTNTA AGTCCTTGT TACATCATGG TCATTNCTA GTTTTNACC 60
AGACTCCCAT CTCACAATAA AATGCATCAA CAAGCAAA 98

SEQ ID NO:5875

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06981

SEQUENCE DESCRIPTION:

GATCTGCCGG CTCCCGCCCA GCCTGTGTNG AAAGAAGGCC CACGGGCACT AGGGGAGCCG 60
AATTCTACAA TCCCGCTGGG GCGNCCGGGG CGGGAGAGAA AGCTGGTGCT GCAGTGGTGG 120
CCCTNGGGGG CCATTCGATT CGCCTCAGTT GCTGCTGTAA TAAAAGTCTA CTTTTTGCTA 180
AA 182

SEQ ID NO:5876

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06982

SEQUENCE DESCRIPTION:

GATCTTGTTC TNCCTCATCT GTAAAAGNAG GTTAACAAAG CTTTCTGCC CACTTCTTGG 60
GGAGAAGGGA ATAACATAAT TGGTAAA 87

SEQ ID NO:5877

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06983

SEQUENCE DESCRIPTION:

GATCTTTGGC AGCGCATATG GCCTCTTTGG GGTCATCGTC GCAATTNTTC AGACCTCCAG 60
AGTGAAGATG GGTGACTAGA TGATATGTGT GGGTNGGGCC GNGCCTCACT TTTATNTATT 120
GCTGGTTTTC CTGGGACAGC TGGAGCTGTG TCCTTTAGCC TTTCAGAGGC TTNGTGTTC 180
GGGCCCTCCC TGCCTCCCC TCTTGCTGCG TGTTGATTG GAGGCACTGC AGTCCAGGNN 240
NNGTCCTCAG TGCGGGGAGC AGGCTGCTGC TGCTGACTCT GTGCAGCTGN GCACCTGTTN 300
NCNNCANCTG CACCN 315

SEQ ID NO:5878

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06984

SEQUENCE DESCRIPTION:

GATCTNTTTT TTTTGGTAG TTCCTCAGCT ATTCAGGAAG GTGTATTTNT GCCAGTAATT 60
ATCCCTATGC TAATACTTTT TAAACATTA CTAGTGAGTG CCCTAAAACA TTAGTAGTGA 120
GTGCCCTTTT NNTTACAGA AGAAATTGA TTGTTGTGAG CGATAATAAA ATTAACGTGG 180
ANCTCTTAAA 190

SEQ ID NO:5879

LENGTH:322

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06985

SEQUENCE DESCRIPTION:

GATCTCTATT ATNAGGCTAG ATGTATAGCC TCTACTCCCC CAGCTTCTTG CTCTTGACCC 60
TGCACTGTAA GTTGCCCTTC TATTAGCAGC CAAGGAAAAG GGAAACATGA GCTTATCCAG 120
AACGGTGGCA GAGTCTCCTT GGCAATCAAC CAACGTTGCT ATGAAATATG CCTCACACTG 180
TATAGCTCAT TATAGGACGT CAGGTTTNTT GAAAAAAGTG GGCAAGNCAT GATTAATGAA 240
TCAGAACTCT GTTTCATTGG TGACTTGGGT GGGGGCTNTT TGAATTTTAA AAANTNNTNG 300
TNAGNTGTAG NNGNGTGNT NN 322

SEQ ID NO:5880

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06986

SEQUENCE DESCRIPTION:

GATCATGGAA TACAAGATAA TTTCTCAGGA ATCAGATGGT CTTATTCCAC ACCTGCAGGA 60
ATGTCAGCAT TGCAACCACC ATGGCAAATA TTGATTTAAT AANCAATTAC TATTCCCAGA 120
TAAGTGTCAA ANTCTTAGAN GAAATTGTCA TATCTTAGAC AATTTAGANG TGATGGAGGG 180
TGGATGATGA GAAATTATCG CACCACTGCA CTCCAGCCTG GGCGACAGAG CAAGACTCTG 240
TCTCAA 247

SEQ ID NO:5881

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06987

SEQUENCE DESCRIPTION:

GATCCACAGT GTTGGGCACA ACTTTGACGT TTCTTAAAAA AAAAATTTAA A 51

SEQ ID NO:5882

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06988

SEQUENCE DESCRIPTION:

GATCCTTGAT TGGTGAAAGG ATACACAAAA TCAGGCTGCT TCAGAGGAAG TCATCTGCTC 60
ACAGGAATCA GGGTGAAGGC CAAGGACGGC ACTCAAGAAT TGNCTGTCT CTAAAAAAA 120
AGCATCTGCA ACGAACTTCC TTTAATTTT GAGTTCAGTG TCTGTGATAA TTAAGAAATG 180
GCANTACCAT GTATTNCCC CAGAAGTAA GANATATTGC TGNACGGACC ANTAAAAGTA 240
ATTNCAGCTC CCTCAAGNAN NATGNGGTGN GGGNGN 276

SEQ ID NO:5883

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06989

SEQUENCE DESCRIPTION:

GATCGCGCCA CTTCTCTCTA GCCCAGGCAA CAGAAAGAGG CCCCATCTCA GAAA 54

SEQ ID NO:5884

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06990

SEQUENCE DESCRIPTION:

GATCCTTAAT TGCTACCACA TTCAAACAA GAACTATGAC CAATTAACT TTAAGTTGT 60
TGAAGTCCA AA 72

SEQ ID NO:5885

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06991

SEQUENCE DESCRIPTION:

GATCCNTTGG GAATCCAGTT GAAGTTCCCA AATACTTTAT AAGAGTTTAT CAGACATCTC 60
TAATTTGGCC ATGTCCAGTT TATACAGTTT ACAAATATA GCAGATGCAA GATTATGGGG 120
GAAATCCTAT ATTCAGAGTA CTCTATAAAT NTTNGTGTAT GTGTGTATGT GCGTGTGATT 180
TACCAGAGAA CTACTIONAAA NAACCAACTG ATNTTTNAA TCCTANTGTG TAGGTAAAG 240
TGTCATGCCN TNNACCANTN CTAATGN 267

SEQ ID NO:5886

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06992

SEQUENCE DESCRIPTION:

GATCATAAAA ATAGCAGNGC ATGTTNCCTG ATGATTTTAC AGTGCATATT GTCATGGCCA 60
GGGCTTAGAG GTAGGGGAAA AACATGTGGA CAGCTTTGTG ACAAGAGTCT CTCTTATAGT 120
GTTTCTTTCT AAAGTAACTT TTTCTGAGTA TGAATGTNNN NNNN 164

SEQ ID NO:5887

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06993

SEQUENCE DESCRIPTION:

GATCCATGCA AATTGTCGCA TCCGACGGGT TAACTTCTCA GACAGACTCT ACTCAGANGA 60
TGAGCTGCCG GCAGAGTTCA AACTGTATCT CCCAGTTCAG AACAAGGCAA AGCAATAACT 120
GGAATTGTGA CTCGAGGGAT AGACCCCTGG ATGTGACTCT NCTTTTAAA AGGAAACTAT 180
GTGGAGGACG ATGCAAAAAC ATATTTATCT TAGTTTGCTC TGCTGTAGTT CTGTTATTTA 240
TACTTGGTGT TGCTTGTCAT GGACACNGGT GAACATGCCG TAACTCTGTG ACTGCATTGT 300
AAGTGCAGTG GGGGTAAGCA GTCCTGTGGC GTGGCGCATT N 341

SEQ ID NO:5888

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06994

SEQUENCE DESCRIPTION:

GATCCTGGAC TGGGTACCTT ACATCAATGG CAAGTTTAAG AAGGNTAATT AATTACACAA 60
ACCCCTCACA GACTGCTCTG GTGCCTGGTG GTGCTAGCTC CTCCCACCTC AGCACCTGCT 120
GCATCTGGAG CAGCCCAAGC CTCAGGATGG NCAAGNGGAA ACCCACAGCT CAGCTTCAGG 180
CTTCTTATGT TTCTGAAAAC AGCTTGGNTA TTTTAATGCA CGTTGCATTA AACCTCACTG 240
AANCATAANG GGGAAA 256

SEQ ID NO:5889

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06995

SEQUENCE DESCRIPTION:

GATCTTTGTA GGACTATATG TGTCAGTAAT NATGAGCTTC AATCCTGACA TTAATAACTT 60
ACTGTNGAGC AGAGAAGAGT TGCTTGTAAC CTTGTGCTT TTATATACTA NTTTAAAANC 120
TTAAAGTGAT AGTGAGCTAT GAAGTACCAA TCATGTATGA TATGTGGATA CAAAGCACAG 180
TATTATTAAA GTGTNATGTG GAAA 204

SEQ ID NO:5890

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06996

SEQUENCE DESCRIPTION:

GATCAGCAAT AAAAANAAC CTACAAAAA NCCTATATTC NTAATTNTT GCTTTTACGG 60
TGATATAGTG CATGCAAACC AGGAGCATTT TGTGTCTTAA GAAAAATAAT CTTAGAACAG 120
ATGGCTGTGA AAATTACACC CATGCACAGN ACANGCCACA GGAATAATNG GNN 173

SEQ ID NO:5891

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06997

SEQUENCE DESCRIPTION:

GATCAAATAT TGGTTGAATG CCTATGTATG TCAGGCCCTG TGCTGAGCCA TGAGGATTAA 60
AAAGATGAAT AANCATATCT TGTTTAGGAA ATGGATGTAT AAAAAATCA AGTGCAATAA 120
AGTGTGTGTC CAAAAGCTGA CACAATGGAA AGGAAA 156

SEQ ID NO:5892

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06998

SEQUENCE DESCRIPTION:

GATCGCTTGA ACCTGGGAGG CAGAATTGTC AATNAGCTGA GATTGCACCN TTGCACTCCN 60
GCCTGGGTGA CAGAGTGACA CTCTGTTTGA AACAAACAAA 100

SEQ ID NO:5893

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06999

SEQUENCE DESCRIPTION:

GATCACTTGA GTCAGGAGT CCTAAACCAG CCTGGGCAAC ATAGTGATAC CTTGTCTCTA 60
CCAAA 65

SEQ ID NO:5894

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07000

SEQUENCE DESCRIPTION:

GATCTTGAAT AATTCATAAT TCTTCCACAG TAGAAATAAA ATAATTNCTG GCTAGTTATT 60
TTCTTAAAAA TAAAAAAAT TTGAAACCT CAAA 94

SEQ ID NO:5895

01740

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07001

SEQUENCE DESCRIPTION:

GATCCCTCTT TTCCAGAAAA TTCTGTGGAA TTTTCTGTA GGACTTTGTT CTCCACAAGC 60
TTGAATTAAA GCAGGATTCA GTTTGCAAA 89

SEQ ID NO:5896

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07002

SEQUENCE DESCRIPTION:

GATCAGCTGA AGTGTGTTTT AGACCCAAAC CATCTGGCCC CTTGTTTTG CTCAGAGGAA 60
GTAAATNTNC ACTTAAATGA AATTGAAAAC GCCATGTGGC ACCACAAAAG AGCTCTCTGT 120
ACTTNCCCCA TGCTGCCTCA AAAGTNCTGT AAGTTTCGGG GTCAGTGTCC CACCCTTCAC 180
TTCCCGANNN NNGGGN 196

SEQ ID NO:5897

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07003

SEQUENCE DESCRIPTION:

GATCCCAGTT TGCCTTGCCA AATAAACTCT GTTTATGTGA ATTTATTAAA CGCAAA 56

SEQ ID NO:5898

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07004

SEQUENCE DESCRIPTION:

GATCCCAGCT TTTTCCCTC TCCCACAAAA CCAGGTAGTG AAGTTATATT ACCAGTTACA 60
GCAAAATACT TTGTGTTTCA CAAGCAACAA TAAATGTAGA TTCTTTATAC TGAAGCTATT 120
GACTTGTAGT GTGTTGGTGA AATGCATGCA GGAAAATNCT GTTACCATAA AGANCGGTAA 180
ACCACATTAC AATCAAGCCA AAAGAATAAA GTTTTCGCTT TTNTNTTGT ATTNATTGT 240
TGTCTTTGTT TCTATCTNNG ANATGCCATT TAAAGGTAGA TTTCTATCAT GTAN 294

SEQ ID NO:5899

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07005

SEQUENCE DESCRIPTION:

GATCTCCCTA CTCCATTNNN CCCTTTAATT NAAGTGGCCA CATGTATATG TCTTCCCTGC 60
TGTGTTAGGA AAATGGGGGC TGGATATCCC AAGAATCAGA GGTTATATAN AAN 113

SEQ ID NO:5900

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07006

SEQUENCE DESCRIPTION:

GATCGCTTTT GTGACTGTCC ATCTGTCCTT GACAGTGGCT GTCATATTGA CTCCTTTGNT 60
GNTTTGTTGG TATTGGGGAC ATTTCCACG GCTGAGTTNT TTTTGACTGA CATGTTTATG 120
ACATAGACGT NGTTTTCGCA TCCNTGACTT AACTGACTT GNACNCCNTT N 171

SEQ ID NO:5901

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07007

SEQUENCE DESCRIPTION:

GATCTACTGT AAAAAGAGGA TTAAGNAAAA TAAATNAGA GCAATTATAT ATATAATTNT 60
ATATCATACA CAGAAA 76

SEQ ID NO:5902

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07008

SEQUENCE DESCRIPTION:

GATCACGGGA GCAATGCTGT ACGGTTTTGT AACTGGTGG TTTGTTTCCT AGAAAACCCA 60
TTGTNTCTCT GGATTCTAG CACATTACTA AAAGAGCCTC TCCTTGTAAC ATAGAAA 118

SEQ ID NO:5903

LENGTH:185

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07009

SEQUENCE DESCRIPTION:

GATCANNCTG ANCCAATTTA CCAAGCATT TTAAGGAGGA ATAATNCCAT ACCATGTAAA 60
ATACCATGAT ATGCTGATTA TAATACATTA ACAAATTTT AAGTTGCGTT CACTAAATNC 120
TGTCTGTTT CTTCAAAATA ATATAGCTTA AATTGCATGN TAATNGTATA TCTTACCTNT 180
TTNGN 185

SEQ ID NO:5904

LENGTH:134

TYPE:nucleic acid

01742

TOPOLOGY:linear

CLONE:HUMGS07011

SEQUENCE DESCRIPTION:

GATCTACCCA ACTCTGTCAT CTGTAACAAC CAGTGATAAC TCTCTTGTCT TGTA AAAAGG 60
GTTTATACAT AACTTGTACA TGGTTTCATT TTGTATTNC CGCAGATTAA AAATTTATGT 120
ATTTCTNTTC TAAA 134

SEQ ID NO:5905

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07012

SEQUENCE DESCRIPTION:

GATCGAATTN CNACCCCTAA NCTTGTCGGG ACGTATGGTC CAAATTCANA TTAAGGTGGT 60
CACCCAACCC GAGATGTCAG GAAAGGCCTT CTGCAGAGAA AATNTCCCC CACCCGCCAT 120
CTGCAGCCAG GTGTGTGCCA CACGGCAGCC TTCCCGAAAC ATAGTATGGA TTTTAAAAAT 180
GTGTTTATTT TTNTNTCTCA ACCACTTTAT AACGTATTTC TCAATTTANN TTGTAATGTC 240
TTGTNTGGG GNGTTGCTGG GTATCCTTNG TTATGCTTCC CACTGTTNTT NTCACN 297

SEQ ID NO:5906

LENGTH:254

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07013

SEQUENCE DESCRIPTION:

GATCTAGAAT GGGGCTGCAA GNCGGTCCCC ATTTTGGATG GGTACATTC AGACACCACA 60
CTATGGTTGC ATCACCTGTC ACACCGACCT AGACAGCTGG ATGCCATTG GNGTAGAATA 120
ACCAGACTGG TGAGTAANCT AGAAATCATA TTACGTGAAG AGTGGCAAAA GGCCTGAGAN 180
AGTTTAGTTT GGNAACATG ACTTANAAGG GGCATCACTG CCCTCNCAT TTNTNTNANG 240
GCCTCATTC CNNG 254

SEQ ID NO:5907

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07014

SEQUENCE DESCRIPTION:

GATCCATGAA GGAATCGGGA GTGGATGGAA TGCGGTAAAA CTGTCCTGGG GCCGGACCCG 60
TNGCCCAAAG TCCGGACCNN GACCNAAAA ACGCTTCCAT CTTAGTCACG TTAGCAGAAA 120

SEQ ID NO:5908

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07015

SEQUENCE DESCRIPTION:

GATCCCAATT TTGTAATAAT ATCTGTAATA TGTAAGCATA GGTATTTGTA TATCTTAAGA 60
AAAAAGCCT AGAAATAAAG CCACAAAAAT AAA 93

SEQ ID NO:5909

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07016

SEQUENCE DESCRIPTION:

GATCTCAATN TGCAAACCTC TTGGNCTCCA GACCCCTGTC TGGNTGGNAC TCCTAGCAGT 60
GTGTGGTTTC ATCAGGAAAT CCTGTCAGCA GGGGNTTAGA TGGTTCCTTC AGGAGGTGGN 120
GAGCCTCCAT AGCATTGAAG GCCAGCCTGC ATCTCGCGGT GTGTGTCCAC TTCTCCCCTC 180
ACTTCCCCT NACCCATCCN TTAAAGTGA TTGGCTGTGA GGAGCACAGA GGNGTGGCAA 240
TTCCATCTGT TNATGGGGTC AGAAGACATA GCCGNCATGG NGATTCACA ATTNACCNGN 300
GTAAAN 306

SEQ ID NO:5910

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07017

SEQUENCE DESCRIPTION:

GATCATATAG AGTAGTTAAG ACAACTGTAA CAGCATTTTT TGAAATACAT TGTAATAATA 60
TAAAAGGTAA CATAATTAAA 80

SEQ ID NO:5911

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07018

SEQUENCE DESCRIPTION:

GATCTTAAGC TCTGCTCTCA GCAGATTTC A GGTGTACCAT TTGTAACTG TACTGAAGGT 60
GTGTCCTCAA GAAGAAAGTG TTCAAATTAA AAAAGCTGCT GCCAAGTAAA 110

SEQ ID NO:5912

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07020

SEQUENCE DESCRIPTION:

GATCGGGAGG ACTGTGGCCA GCAATTAACA CCATGTAGAC TTCCTTAGTT CTTAAGTGGT 60
TGAATTCGCT GNTTGTCTTG TAACGTTATA AATAGTNNAT ATCTGAAGAC GGAGAGCCTG 120
TANTATTCTT CAGATTAAAT GAAGCGTGAG AACTTAAA 159

SEQ ID NO:5913

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07021

SEQUENCE DESCRIPTION:

GATCTCTCCC ATGCCTTTTA AGCAATTAGA ACTAGATAAT GCAGCCATTT GTCACCCAAT 60
TAAATTTGAA AGGCCAGAAA TGCATGGATT AGCACTTCAG CTTTGTCTGC AGTCAAAGCA 120
ATTGTTACTT AGATAGAAGG ACAGTTAAAN TGAAAAATGA ATTTGNTAA AANTGCGGNN 180
GTATAGATAA TATTCACCTC TNCTTTTAA TGCTTAAACA CCCTGTATTC TGTATTTNAC 240
TTGTATCATA NTTTTATTG CTCATTCCTA TTTCCCTGNG ATACTTATTN CTTNCACAAT 300
ATTTCTTCAN GTGGATATGT NCTTTAANTN 330

SEQ ID NO:5914

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07022

SEQUENCE DESCRIPTION:

GATCATAGCC CTNNGCCTGG CGGCACAGCA GCACTTGCGT TCTCGGGGCT GTCGATTNCC 60
 TGCCACCTGG CCAGATAACC TCAAGATTTC CACCTTTTCT TTTCAGCTTG ATTGCATTG 120
 ACTATATTTN ACAGCCAGTG ATTGTAGTTT CATGTTAATA TGTGGCAAAA TATTTTGTGTA 180
 ATNATTTNCT AATCCCTTTC TGAGTACTCT GGGGCCCTGC ATTTATNAGG CACCTACCTT 240
 CATTTTGCTA ACGCTTANNC TGAATAAAAG NTTTTTGATT CCTTAANAAA AGGGNNNGN 299

SEQ ID NO:5915

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07023

SEQUENCE DESCRIPTION:

GATCCTTTGT CCAGAAGAAG CCCATGGAAT ATTGAATGTA ATACATTTAG TCAATTAANT 60
 TTTAAGNAGA TTCTTATNTA ATAAA 85

SEQ ID NO:5916

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07025

SEQUENCE DESCRIPTION:

GATCCAGCTC AGGGGAGCCC TCCTCCTGAC TTTGGAGACC TCCTTCCAGA AAGACTGCTC 60
 GGACTATGGA CTCTGAGCTC TTAAGTTGCA CCCGCTGTAA TACAAATNAG TTGTTTGCCT 120
 GAATTCCAAG AACTGTCTCT GTGGTCTAGG CTGTCTGAAA TTTCTGTTGA GGGTAAGAGA 180
 ATAAGGAAA 189

SEQ ID NO:5917

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07026

SEQUENCE DESCRIPTION:

GATCCCTAGG GATTNTTCAT CTTAAGACTC AAAAGGCTTA ATACCAGGAA CCACCTTGGC 60
 AAGATATTTA CCCACCGGCC ATCTCTGTTT ACTCATGAAT GTTAAATGTT AAAACGCAGC 120
 GCTCTAACCC TGCNTNNNAT TTAAGTCTGAA ATGTCTGTAA TCTGTAATTG TNATGCCTCT 180
 GATGGAATAA NTTATCTTTT TCAGTCTCCT CTAAG 215

SEQ ID NO:5918

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07027

SEQUENCE DESCRIPTION:

GATCGGATTG ATTAATAAAC AAATNCTCTG GAATTTTNC GTTCATGCTT TTCCGTATTC 60

TTTATGGCTT TTAAATAAAT ATACAATGGT TAATAGTAAA

100

SEQ ID NO:5919

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07028

SEQUENCE DESCRIPTION:

GATCAGGGGT CCGGCTGTCC TTCTGTCTG CTGCAGACTA AAGGTCTGGC CAATGTCTTG 60
CCCCACCCG CCAGCCGCGA TACGGCGCAG TTCCTATATT CATGTTATTT ATTGTGTACT 120
GACTCCATCT GCCCGTCAA ATAAAAACC ACAAGGTCG AAA 163

SEQ ID NO:5920

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07029

SEQUENCE DESCRIPTION:

GATCACTGCT GCTAGCTGAC TGGACCTCCC CATTGGAAGT TTGTAATTTT NCTTTGGCAA 60
AGTTTCATTG ACTAGTAGAA CTCATTCTGT TTTAGTGTAT ATTTCAATAT AAATGTAAAC 120
ATTTTGCTCA AA 132

SEQ ID NO:5921

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07030

SEQUENCE DESCRIPTION:

GATCCTAAGG AAGGAAAAAG AAAGTGTTAA AAATTAATAA AGGTTTTTTT GAATCCCGTG 60
TCCTTCAAGT GCTTCTAAC TTTGAGAGGA AGAAATTGAC CACCTGGACT ATGGAAGTGT 120
GCGTAACAGC TTTGAAAGTG TATTTAAAN TTAANTCTAT ATGCCTTTAA NTCAGTGAAT 180
TGGAACATA TTACATGN GN TTNATGATT TNCCTCAAAT ATANTAANTN GTTTCCTTTC 240
CAGTAGAAA 249

SEQ ID NO:5922

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07031

SEQUENCE DESCRIPTION:

GATCTGCAAG TAGCCTAAAA ATGCGATTGC TGGTAAACCT GGCCTCAAAT TTCATACTAC 60
CATAACTNNT TTTATATATT GCCACTAATT TTGACTGGAT TTAATAGCAC TTTATTGTAC 120
AACTACAAAA AAAAANTNTA TTCCTGGANT TGTTGCCNGT GTAATTNCTC TAATGTNCTG 180
GTGCTTNCA N 191

01747

SEQ ID NO:5923

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07032

SEQUENCE DESCRIPTION:

GATCTTATTT CATGAAGGTT GTATAAATGA AATCATTCAG TAATGTATCT TTTAAGACA 60
GGTTTTTTTT TTTCTCTCAG CACAATTTCC TTGAGGTTCA TCCAGGTTGT TACCCATAAT 120
ACCAGTTTGT NAGTCTTTAT TGCNGTAGTC TATAGCATGC TTATATCACA GTCTGNCCAA 180
CCATTCACCC NTNGATGGGC ATATGGGCAT TNCCNGTTG GNGCTATTNC AANTAN 236

SEQ ID NO:5924

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07033

SEQUENCE DESCRIPTION:

GATCTNTTTC ATAGTGTTCA AANCTGTATT ATTATATGTA GAGGGAAATA ATTTTCTCAA 60
CACTAATCGT TAATAACTAT TGTATTAAAT NGTCATNANG N 101

SEQ ID NO:5925

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07034

SEQUENCE DESCRIPTION:

GATCTGCAGT TTCCCCTTTT NTCCCCTCTG AAGAGTGGTT CTTATGTGCA ATCTGCAGTA 60
ACCTTGAAGT CCAGAGCTGC ACTATAGAGG AGAATGCATG CCACTATGAC AGCAGTATGC 120
CAAGCTTTGT NTTCATCTCC TAATAAACGT TAAGACCTTT GGTGTAATAA ANGCAGCAGC 180
ATTCACCAAC AAA 193

SEQ ID NO:5926

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07035

SEQUENCE DESCRIPTION:

GATCTGGGGT AGGGGGCACC CTACAGTGGG ACCCNTCCCN CATTATTCTT TCTNTCCAGC 60
CCCTCCCTCC CACTGGAGCA GCTCCAGAGN CATTCCTCAC CCCCCTNACC TCTCCAGCC 120
AGGGCTGAGA GGATTCGAGG TGGCTGGGAG GGTTTCCAGG CCCCCTGCCC CTTNCCCACA 180
AACTGGGTGN TAGGGCGGAC TTACCTGGCC CAGCCCTGCC TCCNTNAGCC AACCAGNCC 240
NTNGGGCTGT N 251

SEQ ID NO:5927

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07036

SEQUENCE DESCRIPTION:

GATCTCGATA TTTCAAATGG GCTTTNATG CACTGTTGCC AAGAAAGGCT TTCCTGATT 60
TTTTNACAAN TNAATTTTGG CACACTTCA TTGGTGTCTT TCGGCAACTT ACATTGAAAN 120
TGAGCTATTG TN 132

SEQ ID NO:5928

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07037

SEQUENCE DESCRIPTION:

GATCCCTGGG TTGCCCTGTC CCAACCTGCT TGTTAGGTGC TTTCCCATAG NAGGCCCTTC 60
TTGAGAAACA ATAAACTAGG TAGAACTAAA 90

SEQ ID NO:5929

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07038

SEQUENCE DESCRIPTION:

GATCTCAAAA CTCATTGTGT GTACCATATA TNATGGTTTT NTGTCTATAT CATATATTTC 60
CCTACTTATG TGTTTAAATN CTATTNGTN ATGTCAATCT CTCTGATGCC ACCTATTN 119

SEQ ID NO:5930

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07039

SEQUENCE DESCRIPTION:

GATCGGGGCC AGAGGCAGAA CCCTGGTGAG GAAGCTCCAG TCCTGCTCTC TACCCAGCCC 60
ATCTTGCCCTC CATGGTGCCT CTGGAGGCCT CTGGGCCTCC TCTAACAGGG GCTGGTGGGC 120
ACCAAGAGNC AATGGAGTAG ACCCCTGGNT GGTAAGGGNC AAGTNCCACC GGTGCTTCT 180
GGGAAGGGGT TTCTAACACT AGTTTGTGTG CTGTGGTTCC TGGGGTGCCC TCCACTGCCC 240
TCTNTTCAGG AN 252

SEQ ID NO:5931

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07040

SEQUENCE DESCRIPTION:

GATCCCACTG CAGTGGTGCC TACATTTATC ATCATGGCTC CTCTGAATA AAATCTACCT 60

TACCATCTTC AACAAA

76

SEQ ID NO:5932

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07041

SEQUENCE DESCRIPTION:

GATCAGCACA GTAATGCCCA ACAATATTGT TTTTAAACAA AAAATGTAAA CATTCAAAAG 60
AATCTCTCTA AATCACTGAT TAANTCATTT GACTGAAAAC AAA 103

SEQ ID NO:5933

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07043

SEQUENCE DESCRIPTION:

GATCTACCCG NCTNGGCCCTC CCAAAGTGCT GGCATTACAG GTGTGAGNCA CCGTGCCCGG 60
CACCAGNATC CTTTGGTATA GCCAAGCCTT TTGGTTACCG NCTCATGAAG AATATGCTTC 120
CCGCATTGTC CTAGTCCCAG TTGTATTCTC ACAGGTGTTA TGNGGGGGGC ACAATCCAAA 180
TNATAAACCT GGTTCATGNC CAACANATTT NTGCTAAATA GGGAGGNGGG N 231

SEQ ID NO:5934

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07044

SEQUENCE DESCRIPTION:

GATCTGAGCC CAGCGTACAG AGAAGGCTCT GTGCAGACAC TGCTCACACC TCCAGCTCCC 60
AGCTCACCTG CCCCACAGGT GCCAGGNTAC CTNTTTNANT GGCCAGCAGG GCCCTNACCA 120
TCCTCAGCCT GCNTTCCAGT CGCCCATTCT TTCCATTCTG CGGCTCGTGC TTAAAAAGCA 180
ACCAGCCAAC CNTTTNTGAT ATAGTAGGGG ACTTGAAAGG GGCTAAGAAG ACTGANGATG 240
GTCTGCCACC TTAAACCACA AGGNTTNGGG CTTTGGTTN 279

SEQ ID NO:5935

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07046

SEQUENCE DESCRIPTION:

GATCTAGGAG AAGGGNCTCA TGCGGACCCT CACATGGGCA GAAAAATGGT GGTCATTGGC 60
CGACATCACA GTTTCCNGT TTCCCACCCA GCTAAAAACC GTTGTGCTGCT TTAANTTTNN 120
ATAAACTGGA ATCCTTTCAC CCGCTCTAC AGCTAACCCCT CACANGCATG AGGTGCTGTG 180
GCTGTNCCTT ATCCTAATGA TGCGCTNNGG NCCCGTAAAT GTNAACACTC ATGAN 235

01750

SEQ ID NO:5936

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07047

SEQUENCE DESCRIPTION:

GATCAGTTAC ATTCATCAGT TGGTGAGTTT TGAAGAATAA CTACATTNA TTTCAAATA 60
ACAAATGTAT ACGGTTTTAG TTCAGTGTTG AAGAATTNA ATACAATATT AANTNNCTN 119

SEQ ID NO:5937

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07048

SEQUENCE DESCRIPTION:

GATCCCTTTT NAAAAATATA TGTATGCATG TNTGCATTAA AGAGTCTGAA AGGATACTTG 60
CCAAAGTGTA AAAGCATTTA TCTCTGGGAG GTGAGATTG GAGCAATTAT ATTTNCTTTT 120
TGCATATCTG TAACTNCTNA TTTCCCNCAA TGNGCATGTA GTGTCTGTAA AATTTCCAG 180
GGAATAANCA NTGATGTTCA CAATATATAT TNN 213

SEQ ID NO:5938

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07049

SEQUENCE DESCRIPTION:

GATCCAGACC ATCTGGCTA ACATGATGAA ACCCTGTTGC NTGTNGTACC AACTACTTGG 60
GAGGCTGAGG CAGGAGAATG GCATGAACTC GGGAGGCGGA NTTGCAGTGA GCCTCCAGCC 120
TGGGCAACAG AGTGAGACTC TCTCAAA 147

SEQ ID NO:5939

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07050

SEQUENCE DESCRIPTION:

GATCCTGGGA GCCTCTGTTT TTTGCGCATT TCAGACACAG TCTGTGTGGC GAGGAGTGTG 60
ANGGNAGGAG CCTNGGGTGC AAGCCCGTGT NTTTGGCCTC TTTCTCGTG AAGACGATGT 120
GTCCCCGTCA GAAAAAGTGG GCTCCNTCTG CAGCCCCGTG AGCTGAGCCC AGGCTGCGTA 180
GTGACCACAA GCTTATGTGN AGCACTGCTC AGGGAGGNTN TCAGGAATTC CCCTCACCTC 240
GGAAAGGANC TTCTCAGTTT TTATTGGGGG TGTNTAAATT TNCTTNCATA TNGTTCATN 299

SEQ ID NO:5940

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07053

SEQUENCE DESCRIPTION:

GATCCTTCAG GCAGTAAGGG AGAGTTTTC CTCCTTACAC AGTGGCCTTT GCTTGACACT 60
CCAGCTGGAG ATGGGTGTGC CCCAGAAGTA AGCTTTGCAT CTCTTACAAG AGGGGAGCTA 120
CAGGGGCAGC CGTGGCCTAG GCCCAAATC TGCTCTGAGA AAATAAATAT CTGTACCACC 180
TGTAAT 186

SEQ ID NO:5941

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07054

SEQUENCE DESCRIPTION:

GATCCGGTNA TGGTCTGGGC AGAGGCTGGG TCAGGAGTCC CAAAGGTCAG TGACAGTTTC 60
TCAGAAAGAG CCCAGCGTCC ACCTCTCTCC CAGGGCCAGA CACCTCTTCC TGGCTCCCCC 120
ATCCCCCTAT GGGCTCCAG CNCCTGCAC CCTCATGCT GNNNAGATTA AAGCCTCTGT 180
TTTGACCTG TCAAT 195

SEQ ID NO:5942

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07055

SEQUENCE DESCRIPTION:

GATCATTCAC TGTTTTNGTT TAAAACTGG TCAGTACTAT GAAGCTTCTG TGGTTTGTAT 60
GATGTTTTAA CTTTCACTTT AAATGCATA GAATAAATTA AATTGAAAAC ANCAAT 116

SEQ ID NO:5943

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07056

SEQUENCE DESCRIPTION:

GATCCGNAAG CNAGANACCC TGCAGGCTGG CGGGGACCCA NGGGAAAGGC CTTCCAGGC 60
CCTTCTAACC CCTGTGGCCC TGGACTTTCC TTGTNTGGAC TCACCCAGG CCTGGN 116

SEQ ID NO:5944

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07057

SEQUENCE DESCRIPTION:

GATCATAATC ACTGCCTTAC CNNCCTCAG GTTGTNGTAA GGAAGTGTG TGTGGAAGTT 60
TTAATAAAC TTTGGATGCT AGTNTACTTA GGGGGTGTNC CAGGTGTCTT TAATGGGGCC 120

TTCCAGACCC ACTCCCCACC CTTNTCCCT TCCTTTGCCC GGGNACGNCG AACTCTCTN 179

SEQ ID NO:5945

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07058

SEQUENCE DESCRIPTION:

GATCTAGATT AGCAATATAA AGAAGCATAG TGGTACTCTG TTTCACACTT TCAGTAGATT 60
TATTAGAAGT CAAATNCTAT TCAACAGACA CTTATTAGGA TATACAATA ATTTANGAAT 120
AAAATTCCAG GCACAATATA TTTNNNTNAA NTGGTATTG TNAGTN 166

SEQ ID NO:5946

LENGTH:230

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07059

SEQUENCE DESCRIPTION:

GATCTTTTGT GACTACAACT TCTNTTGTA ATAATGATAT ATGGTATTNC CATCGTCAGT 60
TACCGAGTAT AGCCACTGGG TATCACTACT TTGTGTTAAA GTGCCCTTCGC ACTTTAAGTA 120
CATTACTTAA ATGTTGCTTT TAGCTTTGAT AAATTGAAAA TATTTNAATG GGNNGGGGNN 180
TTGAAATTGA AAACACTGTA AAATAGGTTG GNGTGTGAGC NNTATTANGN 230

SEQ ID NO:5947

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07060

SEQUENCE DESCRIPTION:

GATCCGCCTA CCTTGCCCTC CCAAAGTGCT GGGATTACAG GCATGAGCCA CCATGCCCAG 60
CCAGNGATTT AATTNTAAT AACTAATTTN AGGGCACAAT TTGACCTCCA TTGNCAGCCT 120
GTTTGTATTA CTTAATGTGA ATATNTGTGT GTTTTGCCAN GGGNTATTGA NGTATTN 177

SEQ ID NO:5948

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07061

SEQUENCE DESCRIPTION:

GATCTCCAGG CCCAGCCTGG CCCCAAATAT TCTTTCCTTT CATCCTCAGC AAGTGCTGAG 60
TCTGTGAATA AAGCCACATA ACCAGCGGGC ACTAAA 96

SEQ ID NO:5949

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07062

SEQUENCE DESCRIPTION:

GATCATAAAG CCACCGGCCA CTGCCACGCA TGTTGCACCT GTGCCATCGT GCTCCCTCCT 60
GATGGGCACC GTGGTGGAGG AAGTCACCCA GCTGTTTCTC AGTCCCAGAG GCCGGTGGCT 120
GGTTTTAAAC TTGTGTTGAC TGTTGATACT TATTTACTGT ATAAATATAA TTNATCATT 180
GTACCATGAA A 191

SEQ ID NO:5950

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07063

SEQUENCE DESCRIPTION:

GATCCAACCTG GGAGAACCTC AGCCAATGCT GGAAGNATGA TTGAAGTACC TCTCTTTTNT 60
NACTCTTGTA CAGCTTAATG TGCAATAAAG GAAAAGTTAT ATCTGTAAA 109

SEQ ID NO:5951

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07065

SEQUENCE DESCRIPTION:

GATCGACCTG AACTCCTCA CCAAAGTNCT CGNNCCGGAG CACGAAGTCC GGGAGGATGA 60
TGTCGACTGG GACTGGGACC ATCTGTTTAC TGAGGTGTCC TTAGAGGTCC TCACTGAGTG 120
GGACCCACTG CAGACGGAGA AGGAGNACCC TGCNGGGCAG GCCATNCACA CCTNAGCCCG 180
TCACCCATGC TCTAGACATN AAGAANTGCA ANGGGN 216

SEQ ID NO:5952

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07066

SEQUENCE DESCRIPTION:

GATCCACCAA AATAAATGAT TTTCTACATT TTCATTTGGA CTAAATCCCA CGAATGACAA 60
CTACCACCTT TTTTCCTTT TTAATTAATA CTAAATATTG TGATTTCTTA TTTGAGGTTC 120
AAAATGACCT GCTTGAAACT TTGATACATA TTGGAATACA TTATGTAAAT AACTTGTAG 180
CTTTTTGTGA AA 192

SEQ ID NO:5953

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07067

SEQUENCE DESCRIPTION:

01754

GATCACACCC TGGAACAATT GGNGGATTGC TTGCTGCCCT GCATCTTAAG GCGTATTCTA 60
GCAGCAAAGC TTGTNATGCA CTGACTTGGG GCAAGTAAAA CTGATGCTGA GGACAAAGGG 120
AGANGATGTT CCTCGCCCAG GGAAATNAAA ACTTTNCTNA TTCACCTTGC TTGTGCTTAA 180
NCACTTATGT NCATCTAGTG TAGAATACAT GGCTACTTGT TTGTAATTNT NTNATTGGTG 240
GAATTAAAGT AATTTTCCCT TATCTTTGAN CTTTTATTTA GAGAACTNAA ANAAAGCN 298

SEQ ID NO:5954

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07068

SEQUENCE DESCRIPTION:

GATCTNCAGG GGNATGTTTT ACCATCTGNA TCCAGCCTCC TGCTAACTCC TAGCTGACTC 60
AGCATAGATT GTATAAANTA CCTTTGTAAC GGCTCTTAGC ACACTCACAG ATGTTTGAGG 120
CTTTCAGAAG CTCTTCTAAA AAATGATACA CACCTTTCAC AAGGGCAAAC TTTTTCCTTT 180
TTCCCTGTGT ATTCTAGTGA ATGAANTCTC AAGANTCAGT AGANCNAATG ACNTTGGNAT 240
GTAATGNTNN 250

SEQ ID NO:5955

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07069

SEQUENCE DESCRIPTION:

GATCCGTNAA TNCNCGGAAT GGCAGGGGAA GCCTTGCACT AGGTTGCAGA GAAGCATCCT 60
CCACATCCTG TGTCAGAAAC CCTGGTCTCC GTGGCACTTG TAACTCACCG TNCTGTCTNC 120
TGGTCTGTNT GTGTN 135

SEQ ID NO:5956

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07071

SEQUENCE DESCRIPTION:

GATCTAGAAT TGACATTTTG CCTTCTTGTT TCCAGGTGTT TCTATTTTTT CTATTCTTTC 60
AGAGAAATCT CATATTTTCGG TGTATTTATT GCTGTTACTA CTATATTTAC TGCTGAAAAC 120
TGTAACAACC TGAAGATTG TAAATGTGA AACATAGTTC ATTAAAAATA ATAAAATAAA 180
TCTAAATGT AAA 193

SEQ ID NO:5957

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07072

SEQUENCE DESCRIPTION:

GATCCTCCAA AGGCCTGCCC CATGNATTTA ACAGTAATAC AGGAAGCATG GCAGGCACCA 60
 TGCAAACCAA GGATGGATGG TGCAGTCCCT GTGTCAAGTGG GCGGTGGTTT CCTGCTGGCC 120
 TGGAATCACT CATCACCTGA TTGATTGGCT CTGTGGTCCT GGGCAGGTGC CTCATAGGTG 180
 TGTGGNTATG ATGACGTTTC NNTAAAATGT ATGTNTTTAA CANATACTNA ATNGTATTAN 240
 GGTCATGTAC CAATGGNTTT NATAATGTTT NTN 273

SEQ ID NO:5958

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07074

SEQUENCE DESCRIPTION:

GATCAGAAAG NATTAAATAT CACTACCACA TGAGTTAAAA CAAAAAATGG AATAAAAAANC 60
 AAAAGTGGTG TCTATGTTAT CAGTGGNTTA CTTGATAGGN CATTNAN 108

SEQ ID NO:5959

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07075

SEQUENCE DESCRIPTION:

GATCTTCACA AGGNTTGTAT TGGCCACATC CACGTCCTCC GAGCCTACAT CAAGACCCAA 60
 GTGAACAAAG AGCTGGAGCA GCTCCAGGGG CTGGTGGAGG AGCGGCTCAA GGCCAGCGAG 120
 GAAAGGCTCA GCAGCAAGTT GACTGCACTA GAGCGGCCCT TCCAGCTACC TCCGGGTAAA 180
 GGCAAGAGCA AGACCAAGTG ACCCCAACA TTTTCCCCAA TAAAGGTCTG GGCCAGANTG 240
 GCACCATCCC TGCAAA 256

SEQ ID NO:5960

LENGTH:262

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07076

SEQUENCE DESCRIPTION:

GATCTAGTCA TCTGGTTAAG GATTTTAAGC AGATGCAACT ATAAACCCAA GAACTGTAT 60
 TACTATTACT GTTGGTCATA CTAAACCTGT CTATTTCTCG AAGTATATGA CCCACAAGGA 120
 TGTGGAATAA CTAGGAGAAA CTGTTTTTGT ACACTGTACA TCCTTAGTAT TTTTACACGT 180
 ATATGATAGG GATGAACATG ATTTTNTCTC GTACAGACAG CTTANNTAAN GCACTATGTC 240
 ANTCTGCAAA ANAGNNNNNN NN 262

SEQ ID NO:5961

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07079

SEQUENCE DESCRIPTION:

GATCTCAGCT CACTGCAACT NNTGCCACCT GGGCTTAAGC CATCCTCCCA CTCAGCATC 60
 CCAAATAGCT GGGACTGCAG GCACACACCA CCACACCCAG CTAATTTTNG TATTTTTTGT 120
 AGAGACGGGA TTTCACCATG TTGCCCAGGC TGGTGTGAA CTCATGAGCT CAAGTAATCT 180
 GNTGGCCTTG GCCTCCCAA GTGCTGAGAT TATAGGCGTG AGCACTGCAT CCAGCTCACT 240
 CCTNATTTCT TTCTAGCCCC AAAGGGGTTG AGTCAGCAA TCCTNCAGCC TTTN 295

SEQ ID NO:5962

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07080

SEQUENCE DESCRIPTION:

GATCCTGGAA TGTTTGCTGG AGAAATTTAA AATACNGGGG TTTTTNTTT AATGGTGCCT 60
 ATTTAGAGTT GGAAGTTGAA CAGCTGTTGC ATTACATACT TTTCTTTTT NATTGAAATT 120
 TTGAAATCAA ACGTCTTGAT TTTCTNTCC TGTTGAATTG CTATGTNCAG GATGTCCTAG 180
 GGGGTGGGG CAGGGACTCT TTTGTAATA AGCACTGTN TTATNTGGTG TGTGTGGNGT 240
 ATAAANGGCT ACACCCTTAT TATAAAAANN NN 272

SEQ ID NO:5963

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07081

SEQUENCE DESCRIPTION:

GATCTGTCTG CTTCAAAAA ATGGCAAAGT GGGAAATGTG GGAGGGGAAA AACTTCAGA 60
 ATAAAAGAGA TTAAAGAGAT GTATCAACAA A 91

SEQ ID NO:5964

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07082

SEQUENCE DESCRIPTION:

GATCAGGTTG TCTGCATTTG TTGGTGTAAG TGAACATCAT CACAGTTATC CTGAGTTGAG 60
 TTTAAGCCAA ATANATGCAT AGAAAAGGGT CTCCTATTA ATGGAAGANG GTAATTTT 120
 GGATGTGTAT TATTTAGTT TTGTATGTTT AACTNTNATT NAATAAAGTG TTTTAAAT 180
 CNCAAAAATN ANNN 194

SEQ ID NO:5965

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07083

SEQUENCE DESCRIPTION:

GATCTGCCTG AAGAAAATAT CTGTTTTCTA TATAAAAAA TTTTAAAT TAATTGTAA 60

GTTAGATTTA AAATTGTAAA ATATAAAATC ACAAAGGAAT GTACCTTATG AATGTTGTTG 120
 ACATTTTATG AAATTATGTG GATTCATATT ACTGTTACAA GATAGANTTG AATGCAAAAA 180
 GTCCAAAACC TCAATAAANT TTGAGGAAAA CGTGTTATTA TGTAATTGAN NTANAANCAT 240
 TTTATAATTG TGCANGTNAN NNNNAN 266

SEQ ID NO:5966

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07084

SEQUENCE DESCRIPTION:

GATCCTTTTN AGTTTTTCCA GGTGAGAAAT CCTATCAATT ATGTNATAAT NATATGTTTT 60
 CCTNTTCAAA ATTTATAACA TAATTCCTGA CTGCATGGGT TAAACATTTN CATAACAGTG 120
 CTAAATAATA AAGGTGGCAG TGGCATTITT GTCTTGTTTC TCATTTTAGC CAGAATGTGT 180
 TTGCTACAGC AATTCCAAAT TGTGTTTTGT GAAAAANAAA TATTCTNCTT NGGAGACANG 240
 GNNTNTACAT TTGCAN 256

SEQ ID NO:5967

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07085

SEQUENCE DESCRIPTION:

GATCAGAACAA GGCTTAAATT GATGCTATAG AACCAATTAC TCTGTATTAT CTTTGCAACT 60
 CTTTTGTAAG TCTAAAATTG TTTGGNAATA AAAGTTTATT TTAAANNNTA AAAAAANNN 119

SEQ ID NO:5968

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07086

SEQUENCE DESCRIPTION:

GATCTTCTAA TCGACAATCT ACATCATAGT GACCACCAGT AATCACCTGT AAGAGATTAA 60
 AAAAGAAAAA TCACTGTGAA AAGTGTGAAA AATTAATCAG ATTTAATCAG ATTTCTTATT 120
 AAAATGGCAA TAAGGTGATG GGCAAA 146

SEQ ID NO:5969

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07087

SEQUENCE DESCRIPTION:

GATCTGGTTA AGTGTGCGGC ATCTCATCCC CCACTCTNTC CTTTCTTGCT CCTGCTTCCC 60
 CCTTATNACT TGCCAGCTCC TGCTTCACCT TCCACCATGA GTAAAAGCTC CCTGAGGCCT 120
 CCCAGAAGC CAAGCAGATG CCAACACCAC GCTTCCTGCA GCCTGCAGAN CTGTGAACCA 180

ATTAAACCTC TTTTCTTTAT AAA

203

SEQ ID NO:5970

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07088

SEQUENCE DESCRIPTION:

GATCTTCCAA AAATTTATTA AGTGTTTACT TTAAAGTGG AAACAATGTT TTAAAGAGGT 60

GATATAAAGA AA

72

SEQ ID NO:5971

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07089

SEQUENCE DESCRIPTION:

GATCCCTAGC TTGTTTCTG TCAGTCATNC ATTGTAAGTA GCACATNGCA ACAACAATCA 60

TGCTTATGAN CAATACAGTC ACTAGGTNTT AGTTTTNTTT AAATAN

106

SEQ ID NO:5972

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07091

SEQUENCE DESCRIPTION:

GATCTGTGTG ACTGATGGGC AGGGCTCAAT GATGCCCATT GAACTGAGCT TACTGCTCAC 60

ACCACTGACC TGGACCCNAA CAAAAAGCTG ATTGTCTTTT TAAAAGTTAT TATTTTGCCC 120

TGAGCAAATT GCATTTTANT TGGGGCAGTT GGAGTGTTGA NTTCTGGCA GCATTGTGAA 180

GNNGACCNNG GTGGANGTTT NCTGTCCCNG GN

212

SEQ ID NO:5973

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07093

SEQUENCE DESCRIPTION:

GATCTACCCA CCTTGGCATC CTAAAGTGCT GGGATTACAG GCGTGANTAC CAAGCCCGGC 60

TTTTTTTGTG TTGACATGGA GTTTCGNTCT TGTCACCCAG GCAGGAGTGC AGTGGCGTTA 120

TCTNGGTTCA CTGCAACATN CGCCTCCTGG NTTCAAGTGA TTCTCCTGCC TGAGCCTCCC 180

ANGNACCTGG GNTTACAGGT GCTCCNACCA AGNTN

215

SEQ ID NO:5974

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07094

SEQUENCE DESCRIPTION:

GATCTGGAGG TTTACAGAAG CCTTTACCCA TCCTGAGACT CAGTTCTGCT GTTGGTCTNC 60
AGAGAAGTGT CTGCACCTGC TGAGANGNAA TCACACCACT GCACTCTAGA CTGGGCAACA 120
GNGCGAGACT CTGTCTCAAA 140

SEQ ID NO:5975

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07095

SEQUENCE DESCRIPTION:

GATCTGTTGA AGAACTCAGC TGCTGGAAAC CATGCAAAAT GTTTTGAATT GCCCTTAAAA 60
TATGGAAAAT GTTTTCTGAA TGCTTTATAT TCTTNCTGCT GTAAATTAAA AATGANGAAA 120
ATTTCCCAT AAA 133

SEQ ID NO:5976

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07096

SEQUENCE DESCRIPTION:

GATCCCTGCC CTTTGGCACA TCCACTGAAA GGCCAAACAG CAAGTCCGAG TGAGTTTAA 60
ATATTAATTA ATCACCTTT ATTTTACATA CTGAGAGTG ATTGTAATAA AGGCTGTCAT 120
TAATAAACTT GGTCTACCT TAAA 144

SEQ ID NO:5977

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07097

SEQUENCE DESCRIPTION:

GATCTAGAAA TTGCCCTCCT TTTACCCCTA CCATGAGCCC TACCAAAACC AAACCTANCC 60
CTGGGCAACT AANTAAGGTT ATTGGACATN CCCTTCTNAA TTAATNATCC AATN 114

SEQ ID NO:5978

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07098

SEQUENCE DESCRIPTION:

GATCTGACTT CAGACAGAAA CCAATACCAG CTCCTTTTC CTTTAAACNT TTGAAGAGTG 60
TTGATTTGTT ACTATATTAC GTATGCAAAA CTGGAGAGNG TATNGNTNGA TN 112

SEQ ID NO:5979

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07099

SEQUENCE DESCRIPTION:

GATCCGTCCC TAACAAACTA GGAGGCGTCC TTGCCCTATT ACTATCCATC CGTCAATCCG 60
TAGCAATAAT CCCCATCCTN CGATTATATC CAAACAACAG ANGCAATTGAT ATNNTNGCCC 120
NACGTAAGGG N 131

SEQ ID NO:5980

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07100

SEQUENCE DESCRIPTION:

GATCATGTAG GACGNGGCAT CCTGCCCCTG GTAGAGAGGA CGAATNTTCC AAAACANTGG 60
GCTCTACGGN AAAAAGAAGT AGGTTAGTCA CCTTCTGGAC CCTGTCTAAC TCGTTTGCTN 120
AANAGN 126

SEQ ID NO:5981

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07101

SEQUENCE DESCRIPTION:

GATCTTATTT AACCAAAGAC TATTCATTC CTGATATGAT TTGTGTGCTT GATTAAAAATG 60
GNANTTAATG ATATTGAAA 79

SEQ ID NO:5982

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07102

SEQUENCE DESCRIPTION:

GATCAACAGG CTTATTAGAA GAATGAACTA AGGTGAGAGA CCTCATCCTG AGAAAGGTTG 60
AGTTAATGTT AGAGTATAAG TGGTGGTAAT CTTGAATACT TTTCCCATTA AATATTGATG 120
GGGGTTTGAN TTTTAATCAG TGCTTTTNTG GGNAGTGGGG GTCAACTATC TTAATGATTA 180
CAGTTGGTTT GTTTACTGCT TTTGAGGACC TTTCTGGAGG AAAGGAAAAG CCTGTTTTTG 240
GGAGTCTTTA AAGATGGAAA TTGGGTGGTC N 271

SEQ ID NO:5983

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07103

SEQUENCE DESCRIPTION:

GATCAATATG TGACTGGAAC CATTGGCGAG GATGAAGATT TGATAAAGTG GAAGGCACTG 60
TTTGAGGAAG TCCCTGAGTT ACTCACTGAG GCAGAGGAGG ANGNATTGGN TTNNGAACCT 120
GCNTN 125

SEQ ID NO:5984

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07104

SEQUENCE DESCRIPTION:

GATCTNATTG TATTGTCGAA GGACTATTTT TNAACCTGTC CAAATAAACT CTGCAAAGNA 60
TTTCCACAAG AAA 73

SEQ ID NO:5985

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07105

SEQUENCE DESCRIPTION:

GATCCTGCCC TGCTCTCAGC CATAGTGAAG GACCAGCCCT AGGAGTCTGC GAGAGCCTCC 60
TTGGTTCCAT CGTGAAGCCA TAAACAGGAA TGCCTTTGGC AATAGCCTTG AGCCTAGAGG 120
GCCCTCTNAT GCCCCACTGA GGTGCTGTTG GTTTATTGCT GGCANCGTGA ATTCTCTCAG 180
GGGTCTAGGA GGGGCATTTT GGAGACTGCC TGACANCACC NCTATCCCCT GCCTCCNNN 240
CTNAGAAGAG GGTGGAAGNA TGAAATGAAA GCTATGGGNC TTTTGGGAGG NTAACCCAGN 300
GTCTATTCTA GGGTTNGNGG AAGTGNNTAA N 331

SEQ ID NO:5986

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07106

SEQUENCE DESCRIPTION:

GATCCCCTGG CCTGGTGCCC AACTGCCTC GCAAGCGCTC GCCACCCTCA CGTGGCTCAC 60
CTGCTGTTGA GCCTTGTGCT GTCAATAAAC GGTTTGAGGA TTGCAA 107

SEQ ID NO:5987

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07108

SEQUENCE DESCRIPTION:

GATCAGATAT ATCCACAACG NGTTTAAAGAT TTTCAATATT CTTAGAGAAA ATCAATAAAG 60
TCAATAACTA CTCCACCATG AAA 83

SEQ ID NO:5988

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07110

SEQUENCE DESCRIPTION:

GATCAAAAAT TGTGGACATA TCTGCAAATN ACTACCTATA GCCTCATGAA AGTACATTTC 60
ACAAAATGTA AANNCAATG AACACTAAAT TTAAGAGCAG TTACAGTGTG ACTCACTCAT 120
GTTTAAAAAA ANTCGGNGAG CTAAAAANTA CGTCTAN 157

SEQ ID NO:5989

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07111

SEQUENCE DESCRIPTION:

GATCGAGTCT GCTCTGACCT CTCAATCTCC TTCCTCCCC AGGCTGCTGC TCCTGCTGCC 60
CTGTGGGCTG TGCCAAGTGT GCCCAGGGCT GCATCTGCAA AGGGGCATCG GAGAAGTGCA 120
GCTGCTGCGC CTGATGTCGG GACAGCCCTG CTCCCAAGTA CAAATAGAGT GACCCGTAAA 180
ATCCAGGATT TTTTGT TTTT TGCTACAATC TTGACCCCTT TGCTACATTG CTTTTTNCT 240
GTGAAATATG TGAATAATAA TTAAACACTT AGACTTGAAA 280

SEQ ID NO:5990

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07112

SEQUENCE DESCRIPTION:

GATCTCCAAG CAGGAATATG AGGAGGGCGG GAAGCAGTGC GTGGAGCGAA AGTNCCCCTG 60
ATGGCACTCC TCCCACACA CCTGCTCCA AGCTCAGATG GAAGTCCCTT AACCCCATG 120
CCACATTGCC CCCCTCCTCC TTTCCCTCTT GTCCTCATTA ATGGTGATGT TTCTGGGTTG 180
AAAGAAGTAA AAATGTTTTA AGAAA 205

SEQ ID NO:5991

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07113

SEQUENCE DESCRIPTION:

GATCTTTAGC AGTCTCTTCT AGTTTCCCTG GATTTCCTG ATTTATTANT TAGGGAAAAT 60
GAAAAGAGGA CCTTNTGTG CGCCTGCACT GCTTACTGGT AAATAATAAC AAATTATGC 120
TGCCAAA 127

SEQ ID NO:5992

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07114

SEQUENCE DESCRIPTION:

GATCGCTTGA GCCTGGGTAG AGGCTGCTGT GAGCTGAAAT GGCGCCNCTG CACTCCAGCC 60
TGGGTAACAG AGCGAGNCCC CGACTCAATA AATAAATAAG GATGGATAAA TTGTAGCGTA 120
TGCACCATTC ATTATGCTAA GACATTTTAA AGTAATTATG AGAAACGCTC TACTAATGAT 180
TTGTTTTTAT TTGTATTTTN CTGCTTATTA GACAAATATA TNCTCATTTT AAAANGGAAA 240

SEQ ID NO:5993

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07115

SEQUENCE DESCRIPTION:

GATCAGAACG AGCTGTTAGA ATTCAGAGTG CTAGAACTCG AAGTAAGAGA CTCTATCTGT 60
TGTAAACTCT CAAACGGAGC AGACATTCTC TTTGAACCCA AACTGAAATT CATGTAAAGC 120
TCTCAGATGT TTTCAAGCAT GTGTAAAGGG GACATGTTAT AGTTTCTTTC TTTCTTTCTT 180
TCTNTNTTTT TTAAANCTG TATGTNCAGA ATANTTNCNC TGCCTTAATG TGTNCTGGNG 240
AGCGTGCTCA CCCAGGNCTN TGGCCATGTN CCAGAGCTAA TATATTTNTT GCCTATGGCT 300
TNGTNTGGCA CTTAATGAAT ANTTGTGN 328

SEQ ID NO:5994

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07116

SEQUENCE DESCRIPTION:

GATCTTCAAA ATCCAGGAGG GAACCGAGAT AACACAAGTA CAGGTGTGCA AAATTACTTA 60
GTAAACTAT TTNTTCTATT ACTCCTTTT TGCAAGTACA TACATTAAAT GATAANTTNA 120
TTGTGAAGTT AATAAANTGC CCATAGCTGT TCTATTACCT TCAGAACTA TTTTCATAAT 180
TGANAAANAC TTGGNGTAAG TACATGTGTT ATATANCACC TACCCTAGNT GCTCAAGTGC 240
GTNNNGGAGN 250

SEQ ID NO:5995

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07117

SEQUENCE DESCRIPTION:

GATCCTCCTT CTCAGCTAC TCAGGAGGCT GAGGCAGGNG AATGGCATGA ACCCAGGAGG 60
CAGAGCTTGC AGGGAGCCAA GATTGTGCCA TGGCACTCCA GCCTCGGCGA CAGAGCAAGA 120
CTCCGTCTCA AA 132

SEQ ID NO:5996

LENGTH:78

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07118

SEQUENCE DESCRIPTION:

GATCCTATAG GGAGGNCATT TCCTGTCCTG GAATTAGTAT TTCTAAAATG TGNATAAACT 60
TGTTTTATAA AAAGCAAA 78

SEQ ID NO:5997

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07119

SEQUENCE DESCRIPTION:

GATCAGAAAG TGTTATTTAA CAGAACTAC ATACATTTTT NATGTCTCTC TGGACCCTTT 60
GATTCTAAGT AAATTNCAG TAAGTNAGCA GTAATAGACT ATCCTNTTCA NCTATGAN 118

SEQ ID NO:5998

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07120

SEQUENCE DESCRIPTION:

GATCAAAAAG AGGAACTTG AAATGTGATG GTGTTTATAA TAAAAGATGG TAAACTAAA 60

SEQ ID NO:5999

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07121

SEQUENCE DESCRIPTION:

GATCTCCTTC AGAATTTTTG TCTTGACTTT GAATCTTGC CTGTTTGTCT AAACATTTGA 60
CTAACATTCT GTTTGAATTT GGAAGTATTC TAATACAAGA TTTGAATAAA GTTTATCCTT 120
AAATAAA 127

SEQ ID NO:6000

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07122

SEQUENCE DESCRIPTION:

GATCCTGGAG CTGGAGCATG AGTGTCTGAC AATCAGAAGC ATGATGTCCA ATGTCNNGAT 60
GGCCAGAATG AATGTAATAG TTCAGACCAA TGCTGNCCA CTGCTCCTTT ATGACTGCAC 120
TTCTAGCCAG TAGCTCTGCA CAAGTNAGCT CTGTAGAAGT AGGANCTTGG GCTTAAGTCN 180

TGNGCTNTNT CTCCN

195

SEQ ID NO:6001

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07123

SEQUENCE DESCRIPTION:

GATCCCAGCA TGGGGTGAGC ATGAAAGAGT GGCAAACAGA GTGGCATAAG ACAGATAAAA 60
TACAAAAGGC AATTACAAA GGACCAGGAC CGCAGAGGCA GAGATAAACC AGTGGGCTCA 120
GACTTCTGAG CGTCTCAGAN AAANNNAAN AAANN 156

SEQ ID NO:6002

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07124

SEQUENCE DESCRIPTION:

GATCTGTCTA GCTTATTAATGATGAACTG AATTGGAAAA ATAGCTCCAT TTTTGGTGC 60
TTGGGAAGCA CAGTGACCAA AAAAGTTGTA TGGCTGCTTA TTCATTAGTC TTCCTACTG 120
ATGTCAAATC CATGGTACCT AGAGTTAAAT AAAATTCCAA TGCTCTTACT CTTTAA 177

SEQ ID NO:6003

LENGTH:305

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07125

SEQUENCE DESCRIPTION:

GATCCAGTTG GGAATAAGTG ACATCGTATC GGTTCCTGTT CAGATGACAT GGGGAAGATG 60
ATGGTTCAGC CACTGGTACT ACGAGAATGT TTGTATTACC CACATTTGAA TTNATTTGCT 120
ATGATTTTNA TGAAGATTAA AAATATATAC ACAGTTCCTG GTATGTTGAG GTTGTCTTTA 180
TTATTCTTAC TCAGAAAGGA AAATTTGTAA ATATGTTTGT GTGGCTCAA CTGATACTAT 240
TCTTACANCT GGANCATTGA AAATNCAGAG GGCTGTATTT GGNTATTAGN GAGGNCTCCG 300
AATGN 305

SEQ ID NO:6004

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07126

SEQUENCE DESCRIPTION:

GATCCTCAGG CTGGTATACG GCGCAATGTT GCATCAGCTN TGGGCAACTT GGGNCCTGAA 60
GGTTTGGGAG AGGAGCTGTT ACAGTGCGAA GTACCCAGC GGCTCCTAGA AATGGCATNT 120
GGAGACCCTC AGCCAAATGT GAAGNAGGCT GCCCTCATTG CCCTCCGGAG CCTGCAACAG 180
GAGCCTGNCA TCCATCAGGT ACTGGTGTNC CTGGGTGCCA GTGAGAACT ATCCTTGCTC 240

01766

TCTNTGGGGG GNTCAGTCAC TGCCACACAG CAGTNCTAGG CTTGNCTGT GCCAAAACAA 300
TTGNANN 307

SEQ ID NO:6005

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07127

SEQUENCE DESCRIPTION:

GATCTCTCTC CGGCCCCCTA GAAGCCCTCT CCTCACTGCA GCCCTGGTGC TCTGGGGAAG 60
GAGGGGCATT GACAGGTGGT TTGACTGTTC ACCCAGCAGC CCCGCTTCCC CACTGGTTTC 120
TCTCCTGGCT GCCGGCGGNG GTAGGCTGGG AAAGCTTCCC CNTCACCTAG GNCGGGCCAG 180
CACCGGCCNG GGNCNNAAGA GGTCCNCTNN ATCCN 215

SEQ ID NO:6006

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07128

SEQUENCE DESCRIPTION:

GATCCGAGGG GAAATNTTTA GAGCCCTCAG GAGGAGGAAG AGACCGAGTT TTAGGAAAAA 60
CATCAAAGCT GGATAGGTTG GGCAGAAGAG CTGGGGATAG CATTAGAGA GGCTGAGAGT 120
CCTGGGTTCT GGNTTATCAC GTGTGAGNGA AACNGGAGGT TGCTANTTGT AGGTGGGCGT 180
CAGGNTNGA GTGTGCTTC CAGANGTTTC TGCAAGTGGG CCGGGTCTAA GNTAGGGCAT 240
GTTACGCCAG ANGTTTNAGG GNCACTAGGT AGN 273

SEQ ID NO:6007

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07129

SEQUENCE DESCRIPTION:

GATCACAGGG AAAAACCGAC CGAGCTCAGG AAGCCTAATC CAGGTGGTAA CCACAGAAGG 60
AAGGACGGAA CTCACCCAG CATATTTTGA GGCCTCATCT CAGTGCCTAT NAGGGGCTG 120
CCAGNAAGGT CACTAACCTG GTCTCAGTGT GGCCTGTGCC AGCCTGTGT TTNCTGTAA 180
CCCCGNTTTG TGGTACGAGN TATTGNNTCC TATATTACGG ANACAGANCC NTGNTTTCG 240
NTTTTGCATN 250

SEQ ID NO:6008

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07130

SEQUENCE DESCRIPTION:

GATCCCAGTN AGTCATGAGC CTCAACCCCC TCCAGCCCAC TGGGGCTCTN ACCTCCACAT 60

GTGGGTAGAA GCTTNCCTGC CCCCTTNC TCCAGGAAGC CCTNAN

106

SEQ ID NO:6009

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07131

SEQUENCE DESCRIPTION:

GATCGCCTGA GCCCATGAGG CCAAGGCTGC AGTGAGCCAT GGTCACGCCA CTGNATTCCA 60
GCCTGAGTGA CAGAGCAAGA CCCTGTTGAA AACAACAACA ACANCAAA 108

SEQ ID NO:6010

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07132

SEQUENCE DESCRIPTION:

GATCTAAAAC TATTTTCTG TATAAATATT ATTTGCCGAA AGTTTGTTTA TATTNAGAAG 60
TCTGACTATG ATGAATAAAT CTAAATGCT TTGTTTAATT GAAAAACAAA AATCACCAAT 120
ATCCAAGACA TGAAGATATC AGTTCAACAA ATACTGTAGT TANGNGACTA NCTCTCCACT 180
TNTATGGGAA CTACATTTCA CTCTTGGTTT TCAGGATATA GCAGCACTTC ACCGAGATAT 240
TCTTTCAGCC ATANCACTGG TAACATTCT NCTNAATCTN TCTGTAGCAC TTANAGGANT 300
TCCCTCATTC GNTNCCTTTC AGTGTTNCG GGNGN 335

SEQ ID NO:6011

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07133

SEQUENCE DESCRIPTION:

GATCCAAAGT AGCTGGGATT ACAGNCATGA TACCACANCA CAGTCATTTG AATNTATCAT 60
TACTTAGTAC TCNTATTTT TTCCCTGCTG CTCTTTATGC ANTGAAGTCC TN 112

SEQ ID NO:6012

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07134

SEQUENCE DESCRIPTION:

GATCTCCTTT TGATTAATTT ATAGAGTTTT TGATTATATG TCTTTGTATG ANCTTTTATG 60
TTATTGCTCA AATATCACAT TTNATATTTA TAACACAGGC TACTGATGTT GACATTTTAA 120
CAGTTCAAGT GAAGTGTAAGA AATCTTACCC ATTATCCCTC CCTATTAATN NNNTANTGGT 180
CTTAAATGTC TTTCCCTACA TATATTTNTA ACANGTATAT GAGATAGCCT TACAGTTTTG 240
NCTTTAACTA TCAATCATGC ATTAGGNNAC TCAAGNGGN 279

SEQ ID NO:6013

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07135

SEQUENCE DESCRIPTION:

GATCTGGGAC TGGCAGGTTA TTAATCGAGA TACACTTGTT AGGAGGGACA GGGTCCCCCT 60
AAGGCACTTT TAAAGATACT CTGTAAGAAC CATTAACAAT AAACCTACTG TCAATCAAA 119

SEQ ID NO:6014

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07136

SEQUENCE DESCRIPTION:

GATCGAGGTT GTTTGCAACG ACCGTCTGGG GAAGAAGGTC CGCGTTAAAT GCAACACGGA 60
TGATACCATC GGGGACCTTA AGAAGCTGAT TGCAGCCCAA ACTGGTACCC GTTGAACAA 120
GATTGTCCTG AAGAAGTGGT ACACGATTTT TGGGGACCAC GTGTCTCTGG GGGACTATGA 180
AATCCACGAT GGGATGAACC TGGAGCTTTA TTATCAATAG ATGAGAATGC TCATCTTCCT 240
GNTGNGGGNT TTNCTNTTCG NTNCTGGATN CNCCACACTG GGGNTAGATG CTTGNTTGTA 300
AANNCTTNC CTTN 315

SEQ ID NO:6015

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07137

SEQUENCE DESCRIPTION:

GATCCTAAGT AGAACCAGGT AATTGTCTCT TTTCTAATA AGGAATTTGG GTAATTTTNA 60
ATTTTNGTT TTTTAAAAA TAACCTAGAC TATGCAAAAC ATCAAAGTGA ATTTCCCATG 120
ANTGTTTTTA ATATTCTCAT CTCAACATTG TGATATATGC TACTAAAANC CTTNCAATAT 180
ACATCTNACC TCATTTCAGG TGANTNATTN TAATCTNN 218

SEQ ID NO:6016

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07138

SEQUENCE DESCRIPTION:

GATCAGAGCA GAACTAAATN AAATTAGAAT AAAGTTAAAC AATTAAAAAG AAA 53

SEQ ID NO:6017

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07139

SEQUENCE DESCRIPTION:

GATCGACTTA TACCTATGCT AAAGTTAACG GTCTGAGAAG GTAGATTAGT GGTTGCCTAG 60
GGCTAGGGAG TGGGTTTGGG GGTGGGGAAT AGAAAGTGAC TGGTCATGGT TATAGGCTTT 120
TTTGTAGCAC CATAAAGATA GTTTAAAATT AGATTGTGGT GGTGATTGCA CCACCCTATG 180
ATTTGCATGG TATGTGANTT ATATCTTAAT AAAGCTGTTT AANANGTCAA A 231

SEQ ID NO:6018

LENGTH:380

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07140

SEQUENCE DESCRIPTION:

GATCCGCTCC TAACCTGCGA CCGCAGCTGA CCTTCTCCTG CCACTAGCCC GNCCCTGNCC 60
TTAACANACG GGATGAAGTT TCCTTTTCTG TGCGCGGCGC TGTTTCCATA GGCAGAGCGG 120
GTGTNAGACT GAGGATTTTCG CTTCCTCTCC AAGACGCTGG GGGTCTTGGC TGCTGCCTTA 180
CTTNCNNGG GCTCCTGCTG ACTTCGGAGG GCGGATGCA GAGCCCAGGG NCCCCACCGG 240
AAGATGTGTA CAGCTGGTCT TTAATCCATC GGCAGGGCCC GAGCCCAGGG ACCAGTGACT 300
TNGGCCTGGA CCTNCCGGTC TAACTGCAAG CATCTTCCCC AGGGCAAAGG NTTTNTGGGG 360
GAACGNGAGG TTTNATNTTN 380

SEQ ID NO:6019

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07141

SEQUENCE DESCRIPTION:

GATCTATTTT GTGTGTTTTG AAACCTAGGT GCAATNTCCC CTGAAAAAG CTAAAGAAAT 60
GTATATGTTT AATNACATTT TAAAATAAAA TATTATATAT ATGTAAA 107

SEQ ID NO:6020

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07142

SEQUENCE DESCRIPTION:

GATCGATTG ATAAAATTAA ACAAAGTGCT TTTAATGGAA AAAAAAAGA AA 52

SEQ ID NO:6021

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07143

SEQUENCE DESCRIPTION:

GATCCACTGT AATAGTCCAG TTTGGGGTGC AGACAAGTGT GAAGAACTTC TGGAAAAGAC 60

AGTGAAAAAC TGCTTGGCCC TGGCTGTTGA TAAGAAGCTG AAATCCATTG CATTTCCATC 120
 CATCGGCAGC GGCAGGAACG GTTTTCCAAA GCAGACAGCA GCTCAGCTGA TTCTGAAGGC 180
 CATCTCCAGT TACTTCGTGT CTACAATGTC CTCTTCCNTC AAAACGGTGT ACTTCGTGCT 240
 TTTNGACAGC GAGAGTATAG GCATCTNTGT GCAGGANATG GCCAAGCTGN GCGCCGGNNN 300
 NGGCTNGNGC AATGNCAGGA CCNGNTTGCA CCATGGTACC GNACCTNAG TTTNN 355

SEQ ID NO:6022

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07144

SEQUENCE DESCRIPTION:

GATCTTGGAG CTNCTGGAGA AGCAGGNCCTG CNAGCTGCTC AACCGNTTCC AGGACTAGCC 60
 CCCGCAGGCT CGTGCGCCAC CCCGTCCTGG TGAATAAACG CACTCCCTGT GCCTCAGACA 120
 AA 122

SEQ ID NO:6023

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07145

SEQUENCE DESCRIPTION:

GATCCGATAA TGACCATGT GCCTGCTGGT TTGGCCTGTG CTGTTTCTGC TTTTTGCCCC 60
 TNACTTCCTG TGCTAGAGAA AGCCTTATTG GTGTTGGTGG TGGTGATGGG AGGGAAAAGG 120
 GTGGTCCTTT GGGACTCTTG ATAAAAATNT TATCATTTGA AA 162

SEQ ID NO:6024

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07146

SEQUENCE DESCRIPTION:

GATCCAGGCC AATGCATGGC TATTGCTGTA AATCTTGATG TTTATTTCTG CCTTGTAAG 60
 TTCTATCACG GCCTACCTGG AATTAAAAAT TCAGTAGACA AATTAATTGG TCCTCTGCAC 120
 AACTTTTTTA ATAAGTAGAT TATTTTNCAA NGGGNTTNGA NCAANTTNA TTGANTCTN 179

SEQ ID NO:6025

LENGTH:403

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07147

SEQUENCE DESCRIPTION:

GATCAGAGTG GCTGGAGCAG AGTGAATNAG GAGGGAAGCT GAGTAGCAGG TATCTGAGAA 60
 GCAATGCAGC CCGCAGCTTA ACTTCAACAT GCTTTTAAAC TTTTNNCCA TTCTNTTGAG 120
 TTTCAAGATA TAACCTTGAG GAAACTCAA ATCCTTTCTC CTTAGCCTTA AAATAGACTC 180

CACGTCCCTC CCCTTTNTCA CCAGATATGC TCCCTTTNCA TTTATCTAAC TGTATGCTAC 240
TATTTAATTG TGTGATGTCT TAGANGTTTC AGTGGCTAAT CTTGAGACAG ACCAAGNCTG 300
GAGACCCAGC TGGCAANCCT TCCANNATTT ANCTTCAAAA TTGGCTAATT NANCAACCNG 360
GCCCTTNGTT NNAAATTATG GTNATTCCGG GGGNCCCNGN TGN 403

SEQ ID NO:6026

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07150

SEQUENCE DESCRIPTION:

GATCTTGCTG CAGCCACAGT GCAGTCCACA TTAACCTAC AGACCAAACC ATTTGTATCT 60
GGCATCACTT ACTAACACAC GACATGCAGA AAAGCCGCAT GTNGTGTGTT AGTATACANG 120
AAGGAATAGA AACTGATAC TGTTTTAAAT ANTCTGTAAT TTCAATTTT TTNTTTTNN 180
GCTGAANTGG GTCNTNTN 198

SEQ ID NO:6027

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07151

SEQUENCE DESCRIPTION:

GATCATAACT CTTTNTTGAA CTAGAGTATT TTTGCAGCAT TCCTTGTCAT CAGAAACATG 60
GTAAAGTTT AAAACTAGAA GCAGCAGAAA ACTAGCTTGT AAAATTTATC CAAGTAGAGT 120
GCAGGCTAGG CTGTCTGGG GAAATAAACA TTAAANCTTA AAGCAATGTT TTACATGGAA 180
ANNNNANNNN 190

SEQ ID NO:6028

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07152

SEQUENCE DESCRIPTION:

GATCTTGIGN CATTNTTGAC CTTGGACCTG CTTGGTTAAG GAGGGAGTGG GCCAAACCAG 60
AGTGCCAGGA GCTAATGGAG CCAGGCCTGA CTCCTAGGAG TGGTCCAAAG GCCTTCAGCC 120
TAGATGGTGC AAAGNTGGGG CCAGCCTGTT TTCACCGGNA CCNGNGCCTG TGACACCAAG 180
ACCCACCCCA ATCCAGNNT TNACACAGTA TTNTCCN 217

SEQ ID NO:6029

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07153

SEQUENCE DESCRIPTION:

GATCGGAGCC TACTTCCCTC CGCTCAGCCT NGAGGAGCTG AGNCCCTACT TCAGGGACCG 60

TGGGTGGCCT CTGCCCCGGC CCCTCTAGAC GTGCACCAGA AATAAAGGCG AAGACCCAGC 120
CCCTCGGCGG CTCAA 136

SEQ ID NO:6030

LENGTH:278

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07154

SEQUENCE DESCRIPTION:

GATCCAAACC CAAGTCTTGA GCAATGTTTT TCTCAAAAAG CTGCTATCCA ATNATATAGG 60
AAAATACATT GTGTTTCCT AAACACACTT TTCTTTTAA ATGTGCTTCA TTGTTTGATT 120
TGGTCCTGCC TAAATTCAC AGGCTAGGNC AATGAAGGCT GAATCANNGN CANTTCATCC 180
ACCAATATCA TGTGTAGATA TTATGTATAG AAAGTANAGT AANTTATGGC TCTAACTTCT 240
GTGTTGCTGT NTATCCTTGN TTTTNTCGG GGGTGNTN 278

SEQ ID NO:6031

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07156

SEQUENCE DESCRIPTION:

GATCAGTTGA TGTACACTTG TATTATTAAA GCACTCAATA AATCACTGTG GCTGATAACT 60
GCAAA 65

SEQ ID NO:6032

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07157

SEQUENCE DESCRIPTION:

GATCCACATG GCACGGTGAC TGTAAGTAAAT GCATTTTATA TGTCAAAATT CCTTANATAG 60
TAGATTTTAA ATAATCTCAC CACAAAAAAG TAGATGTGTT GGTGATGGAT ATCTTANTTN 120
GCTTAANGTA NTTGTNTCAC CAATGTATAC ATNTATCAGN N 161

SEQ ID NO:6033

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07158

SEQUENCE DESCRIPTION:

GATCATCTTT ACAGTTCCTC GGGAAAATNT GAATGTCCTG CGTTTTGTTT TCTTTACTGT 60
ATGAAAACAG GAAAATAAAA GAGAAATTTA GAAAATACAG CTCATTACAA TAAANNTNTT 120
GGNTTTCAAA 130

SEQ ID NO:6034

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07160

SEQUENCE DESCRIPTION:

GATCTGGCCC AAGCTGGGCT CCCTNNAAGC CAAGAGAGCC TCTNATNGAC CCCGCCTGCC 60
CGAATGAAAT CCGAACAGTT GGGGCTGTTC ATGGCAAGTG GGGCTGGTTT TTCATNTCCA 120
TTGGTTATTT AAAGTTTCN TAAAATAAA CGATTTTAAG TTAAA 165

SEQ ID NO:6035

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07161

SEQUENCE DESCRIPTION:

GATCTGGGGT CTGTTTGTG CATTACTTTG TTTACTCCTT CTTCCATTTA TTCATTCAAT 60
AAACATTTAT TGGGAAA 77

SEQ ID NO:6036

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07162

SEQUENCE DESCRIPTION:

GATCCGGCTT GCCCAGAAAG AGAAGACAGC CATGGAAGTG GAAGCCCCTT CAAAGCCAGC 60
CAGGACTAGT GAACCACAGC TCAAAAGGCA AAAGAAGACA AAAGCCCCC AGGATGTAGA 120
AATGAAGGAC CTTGAAGATG AGAGCTAAAC CTCTTCCACT AGAAGATTCT CAACTGGAGC 180
CAGCCTTCNG GCTCAGTGGT TGTTTCAGAG GACTTTGACA AAAGCAAGGC CCCTTTTCAC 240
TCTCCAGATT TCCTCCTACC TAATGGCCTA CTGACCTCCC CTTAGAGGGA TGTNTTTGGG 300
NGGGAAGNTN 310

SEQ ID NO:6037

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07163

SEQUENCE DESCRIPTION:

GATCCAGAAC ACTTCAAGAA CTCGTCAAAC AGCTCGATAA GCCTTTTTGA CTGTNTACAT 60
CTGTACCGGG AATAACATTC CTAGGCTGAA ATTTCCACAA AGANTAGAAC CTGTACCCAG 120
TTCTTCAGGC TGATTTCCCT GACCTCTTGG GCATTTGTAT TTGTAGTAAA GTATTGCAGA 180
GATTCTAAG TATTTTTNNA GCAGCCATNA AAAATTGGNC TTTGTNTTNG TTGATTCATN 240
NGGAGGGCAA GTTGGGGANT AGACTTCAGT NGANCTCGGT ATGGNTGN 288

SEQ ID NO:6038

LENGTH:51

01774

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07164

SEQUENCE DESCRIPTION:

GATCACGCCA CTGCACTCCA GCCTGGGCAC CAGAGTGAGA CACTGTTTAA A

51

SEQ ID NO:6039

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07165

SEQUENCE DESCRIPTION:

GATCTGGGCA GGGAACATCA CATACCAGGG CTGTCTGTCG GGGGGGTGGA GGGCTGGGGG 60

AGGGATAGCA TTAGGGGAAA TACCTAATGT AAATNACAAG TTGATGGGTG CAGCAAACCA 120

ACATGGCACA TGTATACCTA TGTAACAAAT CTGCATGTTG TGCACGTGTA CCCTAGAACT 180

TAAAGTATAA TAAA 195

SEQ ID NO:6040

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07166

SEQUENCE DESCRIPTION:

GATCAGGCC CACCTTGTGT CTACCCCAT CCCNGCTGTG AACGTGACAN TGAATAAAGT 60

CGGGGAAACG CGAAA 75

SEQ ID NO:6041

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07167

SEQUENCE DESCRIPTION:

GATCTGAATT GAGGAACTTG TAGTTTTTGC TCTCCCACTT CTTGGAAACC CCTATCTACT 60

TTCTTATGTA TTTGACTACT TGAGGTAGCT TATACAAGTA GAATCATACA AATGTATTGT 120

TTTGTGACTA GCTTACTTCA NTTACAATAA GTCCTCAAGT TCTNCCATGT TGCTGTGTGT 180

GTCAAAATTN CCTCCTNGC TAAGGCTGAA TAATATTNCA TNGTATATAT ATGNCNTTNA 240

TCCAGTCATT CATCAATGAN TACNTGTTTT TNGTGTGTGG TGTGGAANC CTNCTGGGGA 300

CATGGTNATA TTTTN 315

SEQ ID NO:6042

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07169

SEQUENCE DESCRIPTION:

01775

GATCTAAGCT GATTTAAATC TAAAACTGG ATAAGAAGCT GTGGCTTGTA ATTAAAAATA 60
GACCTTTATT CACTAGAAA 79

SEQ ID NO:6043

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07170

SEQUENCE DESCRIPTION:

GATCAGGTAT TTAAAGGACA TCTGACAGTG CCTGGCACGG GATAGGTGCT CCATAAATGC 60
CTGTAGCTAT AATTATTACT GTNCCACTAG CTGTTTACTT AAGTAACATT GAATTTCCAC 120
AGANTGCATT TCGAATCAGG TGGACTATGA TTATACTGAT TNTNAAAATA GNGAGCTGCA 180
TCTGTTAAA 189

SEQ ID NO:6044

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07171

SEQUENCE DESCRIPTION:

GATCTGGAGT GGAAGGGGAA TTCATTGTGTT CATTGTCTAT CCTTTTGTAT TGATTGAATT 60
TTTATATAT ATATGTAAAT TTNCACAATA AAATTTTTTN CAAAATAAA ATAAACAAAA 120
GGGGCTTTTT GCAACCCAAT TCCTATCTAA A 151

SEQ ID NO:6045

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07173

SEQUENCE DESCRIPTION:

GATCATAGCA CTNTATCATC TAAAAGTTA ATAATAGATT ACTTGTAACA CAGGCTCACT 60
ATNGAGAAT TCATCAAGCT GTATGTACAT TTATTGTGCT CTTATTGTA TGTATAANTC 120
AATAAATTGA AACAGTAAAC GAAAAGGTAA TTNTAGANAN CCTACAGTGA TNCTTGNN 178

SEQ ID NO:6046

LENGTH:380

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07174

SEQUENCE DESCRIPTION:

GATCCGTCAC AGACTAAGGA GATGGCAGGC ATTGACAGCT TCACTCCATG AAGGCCATCT 60
CTGTTTCTNT CCTCCGCTTA ACCAAGCTGT TGTGGTTTTT NAGCATAGTG TTGTATGTTT 120
CATTGCTAGC TGCCTGCTG TTTAACACAG TGTGTATTTT TTTNCTAAA TGTACATAAT 180
TAGAAAAGAA GATAACAATA GGANGCTATG TGTATCTCCT GTGTAAAGNA GTGGCTTCAC 240
TGAAAAAATG GTGTGGCTAG CATTTCCCTT TGAGTCATGA TGACAGATGG TGTGAAAACC 300

ATCTAAGTTT GCTTTTGACC ATCACCTCCC AGTAGCAATT NTGCTTTCAT AATCCNTTTT 360
AGCANTCCAG GCCTCTTTGN 380

SEQ ID NO:6047

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07175

SEQUENCE DESCRIPTION:

GATCGTAATG TAAATTCTT TTACCATGTC AAGAAATTAT TAAAAATACA GGTACTTTGA 60
CCTCTTTCTA AA 72

SEQ ID NO:6048

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07178

SEQUENCE DESCRIPTION:

GATCCTGAAA AGATAGGGCT ATTGTCCCCT GCCTCCTTGG TCACTGCCTC TNGCTGCACG 60
GNCTCCTNAG CCCACCCCT TGGGGCACAA CCTGCCACTG CCACAGTAGC TCAACCAAGC 120
AGTTGTGCTG AGAATGGCAC CTGGNGAGAG CCTTCTGTGT GCCAGNTTTT GTTCTGAGTG 180
CTGTACATGT ATTANNTCCT NTACTGCTNG CCACATTGTA CCNNTN 226

SEQ ID NO:6049

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07179

SEQUENCE DESCRIPTION:

GATCCCCGTA CCACAGTGCC AGCCATGCCC TTCCCCTGGG CTACCATTGT CCCTTTCCTC 60
ACCCAGTTGG TAGAGGAGTC AGGAGGTGGG AGGCCGTGGG CTTTGGTTTT ATAATGTAAC 120
CACTGTGGGG GTGGGGGAGG ATGGTGAACC ATGTATTNA GTGAAATATT TAATATATTT 180
AANTATCANT AAANTCAAAC TCTTTGTAAA ANANANNNAG NANGN 225

SEQ ID NO:6050

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07180

SEQUENCE DESCRIPTION:

GATCATCCTG GGCAGCAAAG TCATACACTC TTGAGGGAAG AGAGAGACCT TCTCATATTG 60
TTTTATATTG TTTTATACTC AGTACCTGTT TTAAGAAAAA AACAAGGAAG TGAAATCAAA 120
GACAGGCAGC CCGGCACCAG GCCTGANACC AGCCCTGGGC CTGCNTGGCC TAAACCTAGT 180
AGTTAAATTA CAACCTACGA CTTAGANCCT GATGTTATCC GTAGATTCCA AGCNTTGTAT 240
AAAANATTTG TGANACTCCC TGTGTGTTC TGTGCCAGTG CATGNNACCC CTGTCACATA 300

TCCCCTAGAT TGCTCANTCA NTCNCGGTTT GN

332

SEQ ID NO:6051

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07181

SEQUENCE DESCRIPTION:

GATCACAGGC CTTTGGAGCA CTTTACTCT CTGAGAAGAA CTGGAGCTAG AGATGTAAAA 60
TGGACAGTCT TGATGGGGTT GAGAACCTTC TGGGGAGCCA GATGACCCTC TCTTTGCACA 120
ATAGATAAAA GTCTTTATAT GANTATATAT AANTTTNTTT NTTTTCCCT TCCTGTGGGA 180
TTTCTGGAGA ATGAGAATTA TCCAAATNCT CAGTCTACCT GNGATAGTAA ATNCATGGCT 240
TATGCTTCTG GTCCTTAAA 259

SEQ ID NO:6052

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07182

SEQUENCE DESCRIPTION:

GATCGNACCA CTGCACTCCA GCCTGGAAGA CCAAACGAGA CTCTGTATCA AAAATAATA 60
ATAATTAATA AAGTTTACT GGAAAAAGA AA 92

SEQ ID NO:6053

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07183

SEQUENCE DESCRIPTION:

GATCAGCTAC AATGCCCTGT GTTAAATTNT TTAAAAGTTT CCCTTTTCTT TTTTGCCAAT 60
AAAGTTGTAA ATAAAGACCA TCATACATTA AA 92

SEQ ID NO:6054

LENGTH:95

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07185

SEQUENCE DESCRIPTION:

GATCCCTTCC CGCCACACGA TGCTCCGTTT TCTCCGTTG TGAATNCCGC GTCCTGTCCT 60
GGTGACAGGA GAACAATNTT GGTGAACGTC GCAAA 95

SEQ ID NO:6055

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

01778

CLONE:HUMGS07186

SEQUENCE DESCRIPTION:

GATCTCCTTC TCACTGCATT CACTCGGTTC CCATAGCCCA AGTCATATTG TNTCTCTCCT 60
GGACAGTAAT AACCTTTTNT TGGGCTCCCT GCTTCCAACC TTGCCTTCTG TAGTGTACTT 120
TCCAAATAGA AGCCAGAGTG ATACCTTATA TTAAA 155

SEQ ID NO:6056

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07187

SEQUENCE DESCRIPTION:

GATCAGGAGG CCCACTTGGA TTTATAGTAT AGCCCTTCCT CCACTCCAC CAGACTTGCT 60
CATTTTCCGA GTTTTAACT AGACTACACT CTATTGAGTT TAATTTTNTC CTCTAGGATT 120
TATTTCTGTT GTCCTAAA 138

SEQ ID NO:6057

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07188

SEQUENCE DESCRIPTION:

GATCTGAAAA CCAAGTGGTG ACCTAGGGAG GGAACAAGCN CTGTGCAGCA TTGATGAAAC 60
TTAAAGATG AAGTCCTGGT CCGGGCACGG TGGTCACTT CTNTAATTCC AACACTTTGG 120
GAGGCCGAGG CAGGAAGATG GCTTCANCCC ACGACAAA 158

SEQ ID NO:6058

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07192

SEQUENCE DESCRIPTION:

GATCTNTGGC CCACTCCGCA TAAATCAGGT GCATAATGTA GCTGCCCGGG CTTCTATACT 60
GCAACATTCG CAAGGCAATT AGCTTGAAAA CTGAATTGAT GTACATTGAT TTTTAAATA 120
AAGTTATTGT AATATATTCA CTCGTTATAA A 151

SEQ ID NO:6059

LENGTH:362

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07193

SEQUENCE DESCRIPTION:

GATCTATACC CTAAGCAGAT AGCAAAGAAG ATAATGGAGG AGCAATTGGT CATGGCCTTG 60
GTTTCCCTCA AAACAACGCT GCAGATTTNT CTGCACAAAC ATCTCCACTT TTGGGGGAAA 120
GGTGGGTNGA TTCCAGTTCC CTGGACTACC TTCAGGAGGC ACGAGAGCTG GGAGAAGAGG 180

CAAAGCTACA GGTTTACTTG GGAGCCAGCT GAGAAGAGAG CAGACTCACA GGTGCTGGTN 240
CTTGGTTTTN GCCAGGCTCC TCCGAGCACC TCATGCATGT CCCAGCCCCT GGGCCCTAGC 300
CCTTTCCNGN CCTNCNGTCT NCAGTGCCAG NACGGAANTN CCTTGNACCA NNGGNTNTTN 360
GN 362

SEQ ID NO:6060

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07194

SEQUENCE DESCRIPTION:

GATCCATCAT NATGTAAAN TTCACAATAT GGTTCAAATG TAACANTGCA GAATTGAATA 60
TGGAGGCATG CATAACCTTC CTCTTAGAAA ATGGCAGGTN TTGTAATTTC AAATTTTNT 120
GCAATTAGAT TAANTCATAA TGCAACAAA 149

SEQ ID NO:6061

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07195

SEQUENCE DESCRIPTION:

GATCTTGCTT TAACTTTCAA CACTTAGAAA ATCTACAAAC ATTCAGACCT GTCTGGGTTG 60
GTATTGCCAC CCATGACATT TAACATGTTG TGATGCTTGA AAACACAGGA GTAGAGAAAN 120
TCGATGANGA TTGTATTTN NCACCTTAAC TCCACATTGC TTTATTGGNT AATTNATANN 180
CTNN 184

SEQ ID NO:6062

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07196

SEQUENCE DESCRIPTION:

GATCAGTAGT CTCTATTCAA ACTTTNAAAA TGTCGTGGTA TTGTAACAAT ATATTTAATG 60
AAAGANGGTT ACAGACTCCC CTGAAGAACC AGCTTTCCTA CGCTTTTNAT TTNCTAACT 120
TGTCTAACCT GATTNAAAA TGACTGCANT TCCAGACTAA AAACATGCTT CANCCCTGTT 180
TCANGACATT NTGCTN 196

SEQ ID NO:6063

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07199

SEQUENCE DESCRIPTION:

GATCCAAACT CTACATCCAG AGATTATGAA AAATTCTTAT AGAATTTTGT AACAAGTATT 60
TACATGTTGG GTGAAAGANA TTTCATAGTC GTTGGAGTGC CATGAAATTA ATACTTGCAA 120

TTCAGATTGC GGTAGTTTAC ACTTTTCCTG TATGTTTCAA ATCAGGTGTG TACCATTGT 180
 NCTGAGANCA CCACAGANTG ATTTATCCAA AGTCCATTGA TTTTNATACG TGTTTTGGTT 240
 TGTNACCAAN TTATNGTNAT TCNTNGCACA TTTTGGNAA TTNATTGTAT AGGNN 295

SEQ ID NO:6064

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07200

SEQUENCE DESCRIPTION:

GATCTTCGCT GATTNNNTCC ATCAATNACC CGGAGCATCC ACTNACGCTA GAGGAGTTGA 60
 ACGTAGTAGA GCAGGTGCGG GTTCAGGTTA GCGACCCCGA GAGTACAGTG GCTGTGGCTT 120
 TCACACCAAC CATTCCGCAC TGCAGCATGG CCACCCTTAT TGGTCTGTCC ATCAAGGTCA 180
 AGCTTCTGCG CTCCCTTCCT CAGCGTTNNN NNGATGGACG TGCACATTAC TCCGGGGACC 240
 CATGCCCTCAG AGCATGCAGT GAACAAGCAN CTTTGCAGNT AAGGNGCGGG TGGCAGCTGC 300
 CCTNGNGAGC AN 312

SEQ ID NO:6065

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07201

SEQUENCE DESCRIPTION:

GATCAGTGCT CTTCAAGGTG TCAAGATTAT CAAAGACATA AAAGANTGGN TGANCTGCCA 60
 TAGATTGGNG GAGACAATGC AATGTGAAAT CCTGANTTTG ACCCTGAN 108

SEQ ID NO:6066

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07202

SEQUENCE DESCRIPTION:

GATCTTTAGT CCGAGTATGN GAAATTCAAG CAACTTTGCG AGANAAAGGA ATACTATTTT 60
 TNAGNCAACA AATTAAGGAA CTTGAAAAGC TAAAAANTCA GAN 103

SEQ ID NO:6067

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07204

SEQUENCE DESCRIPTION:

GATCANNGAA ACTAAACATT ACACCTTCTG GNCTTTNATT TATGAAGTGG CACAGAATCT 60
 AACTTTNCAC TGAATATCTT TCCATTACA TCTCCTCTGC CTTAGTCACA ATGGCAACAG 120
 TACAGNN 127

SEQ ID NO:6068

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07206

SEQUENCE DESCRIPTION:

GATCTCCCAA GNAAGCACAA ATAGTTTTTT TCGCTAACTT AGTTATGAGT GAAGCCTCTG 60
TNCACCTATA ACTNGCCAGT TTCATTGGTG GAATAAGTCC CCTTACTCAT GATTCANCAA 120
TATNCCTATA TTANAN 136

SEQ ID NO:6069

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07209

SEQUENCE DESCRIPTION:

GATCAGAGAA GGTTTTGTTT GTCCTTTTAA TCTTTACTTC TTTGAATTGT GAAAGTAATA 60
CTACATATTC ATAATAAATT CAAATAATAC AGAAGTATAT TATGTAAA 108

SEQ ID NO:6070

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07210

SEQUENCE DESCRIPTION:

GATCCGTGCT GTCCAATCCG GTAGCCACAC ACGGCTCTCG GGCACCGCAC AGTGGCTAGT 60
CTGAAACCTG ACATGCTCTA AGTGTAATAAT ACATGGTGGA TTTTNAAGAC TTGAACCAAA 120

SEQ ID NO:6071

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07211

SEQUENCE DESCRIPTION:

GATCCTGGCC CTCCACCTNC CTCCAGGCCA CGAAATGGGA ATNCCAGCAC TAAGCCAGGC 60
ACCGGGCAGA AGCTGGGCCT TCCGCCTCCN TTGGATGGGG TCAAGAGGCC ANGCTGGNA 120
CATTTTGGNG TGTCTGGCT ACCAGCTCTC ACCTACANCC ACGCACCTCT NTAN 174

SEQ ID NO:6072

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07212

SEQUENCE DESCRIPTION:

GATCTAGATA TNAGGTTTTT CTCCTTCATT CTCAGCTGTC GAAGAAATCA AAGTAGCATA 60

TGCACAAGGT TAAAAACCAC ATATACAAAT ACTATAGAAC AGCTTATANT GAAAACCTTG 120
CCTGCCTTTA TANAANNTGT GATTATCTTC TTCTGTTAAT GTCAGTAANN GATGGTTTGT 180
CCTAAA 186

SEQ ID NO:6073

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07213

SEQUENCE DESCRIPTION:

GATCTGAGAG ATGATACATG ATACCAGATG AAAAGAAGGA GAAGTGTGTA CCATATGTTT 60
TNAGCAGAGG NCCCTCCAAC TTATGGCATC AGGGGCAAAA AGTCACAGCT TATCCCAGGC 120
ACCCTGGCAG GTTCTCAGAG CCTGCCTCCT CCCTGTTTAT ATGCGTACAG CCTGGTAACC 180
CCCAGGCATG CAANTATACA GTCTGTAACA ACAGGNNNTT NNTNNNTTN 229

SEQ ID NO:6074

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07214

SEQUENCE DESCRIPTION:

GATCTTAAAA CTGAATAAAA ATATTTAATA AAACTTTGAA ATATTTTAAA 50

SEQ ID NO:6075

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07215

SEQUENCE DESCRIPTION:

GATCCATTCT ATCCATCCGT TATGTGGCTT TGCCATCCCA GCTTGGAGTG TCTTTACAAA 60
GATAATAACA GTTGTTTTCT TTGCTCTCGT TTTGGATGCA TAGACTGAAA AATTAACAACA 120
AATAACTTGT AAAATGGCTT GTNAAAAAAT ACAATTACCT CTAATTAGTA GTACGCGTAA 180
NTNTTTTACA GAATGANAGG CGTGCTTTNN ATTCCTTAC TGC GTTACAT TGGTGGCGAA 240
AGANGTCTGT ATGANANTCA GTNCTTNTGC TGACACAAGN TCCATTGGT NACANAN 297

SEQ ID NO:6076

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07216

SEQUENCE DESCRIPTION:

GATCCTCAAT CAGTGGGTGG AGGATAACAG GGTAGATTCA CTTGTTTGCA CTTNTACAGT 60
TGTAGCTGCG AGTCCAGAAG TCCTCTAGAG CATGTTTACT GGCAGTGAAGT TGGTGAGACA 120
GTTGTGGAGT ATCCCATCTCT GATGAGTACA GAAAAAAGAAA NGANGAGAAA 180
AANTTANGAA A 191

SEQ ID NO:6077

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07217

SEQUENCE DESCRIPTION:

GATCCGAGCG TCGTGAAGCTC ACCTGAAGCTT TGGAAGGTTG GCACTGGGGG GCCGCATCCC 60
CCTGGGAAAT NACTGAACGC GGGGTTTCAN TGGGTCCCGC CTGGGTCTAA GGACCCAGTT 120
TCTTCTGTNA GCACGGGCAG TGGGAGGCCG GTGGAAGGC GCAGGGGCC ACCTACGCGT 180
CTCACATCTT CAGGGGCGCA TTTCTACAAT AAAAATCAC CCAATTAGAC CTAAA 235

SEQ ID NO:6078

LENGTH:181

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07218

SEQUENCE DESCRIPTION:

GATCTATTGG ACCAAACCTT CTGCACACTC GGCCAGTTCC CTCTCCAATG TCCGGTGCCA 60
TCTTTCCTGA CCTTTGTTT TTTCTGTTCA GGAACCATCA GTCCCCTTGT AATAAAGGTG 120
GTAGATTTC TTAGAGTTTT AGATTGAAAC TTTGAATAAA TCAAAAATAC TCATTCTTAA 180
A 181

SEQ ID NO:6079

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07219

SEQUENCE DESCRIPTION:

GATCTATCAT TACAAAATNA ATTGAATAAT AAAATAGTTT GGTAGAAACT TAAA 54

SEQ ID NO:6080

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07220

SEQUENCE DESCRIPTION:

GATCCAGAGT TGAAGACCCT TCAGCTGGCT CTGCCTGCCA GTGCCACANA GTGCCATGGC 60
CCAGGAAGAC AGGTTTNTT CCATCTAGGC CAGGCCATCC AGTGGCCATC CTCCGTGTCC 120
TCCCGCCTCC TCCTGGTGTG ACTTCTGAAA ACCAAGAATT TGTTCTGTG GACTTTTTCT 180
GTGCTATGGA CCATTGTCCT CTCACCCACT CAATAAATCT TGAAA 225

SEQ ID NO:6081

LENGTH:291

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07221

SEQUENCE DESCRIPTION:

GATCTCTNCT AACNNTAGTA AATAAACT AAAGTGGTGG GCTTTGATAA TGCATTTNGT 60
GGATACAAAA TCATCGNCTC ATCACTTTCT AGAATGAAAG GCTGGGAGGC ATTGCTCACC 120
TTTTGCGTGA AGAAAAGACC TGTCCCTTAG AGCCAGTTT TNCTTAAGGG GAGGACAGAC 180
CGTCGTCACC CAGTGGACCN CGTTGGATGG NTGGATGCAG TNCATNCTTT AGAAGCACCG 240
CATACCTGCT TGTTACAGGT NCAGNGTAAG TGGTCTTNGC TNCTGTGGGA N 291

SEQ ID NO:6082

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07222

SEQUENCE DESCRIPTION:

GATCTNCCCT AGCCCTCTNT TCCAGAAGAT GCCCTCCAAT CCTTTCCACC CNATTCCTTA 60
ACTNTNGGGA CCTCGTTTGG AAGTTTTCTG TGGGCTTGGC CTTGGTN 107

SEQ ID NO:6083

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07223

SEQUENCE DESCRIPTION:

GATCTAGTTT TCCAAGTAAC ATTTTGTGGT GACAGAAGCC TAAAAAAAAG CTAAAATCAG 60
GAAAGAAAAG GAAAAATACG ANTTGAAAAT TAAGGAAATG TTAGTAAANT AGATGAGTGT 120
TAANCTAGAT TGTNTTCATT NCTAGATAAN NTGTATAACG CTCTCTGTNC TAN 173

SEQ ID NO:6084

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07224

SEQUENCE DESCRIPTION:

GATCACCTGC GTGTCCCATC TACAGACCTG CGGCTTCATA AACTNCTNA TTTCTCTTCA 60
GCTTTGAAAA GGGTTACCCT GGGCACTGGC CTAGAGCCTC ACCTCCTAAT AGACTTAGCC 120
CCATGAGTTT GCCATGTTGA GCAGGACTAT TTCTGGCACT TGCAAGTCCC ATGATTTCTT 180
CGGTAATTCT GAGGGTGGGG GGAGGGACAT GAAATCATCT TAGCTTAGCT TTCTGTCTGT 240
GAAATGTCTA TATAGTGAT TGTGTGTTTT AACAAATGNT TTACTGAC TGTTGCTGTA 300
AAAGNGAATN TGGGAATAAA GTTATTN 328

SEQ ID NO:6085

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07225

SEQUENCE DESCRIPTION:

GATCTCAGCT ATTTAAATAC AAACCTGAAA AAAATATTTT TCCAGGGTAC CATAAATATG 60
ATTAANTNNN TAAAAAATTT AGTGTCACTT GATGAAAATA TAACTAGACC AATAGTAAAA 120
TNCAGGTGTA TCTTANTTCC CTGANGTCCT CATTTN 156

SEQ ID NO:6086

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07226

SEQUENCE DESCRIPTION:

GATCCTGGGC TGCTGGTGCT ACCTGCGGCT GCAGCGCATC ANCCAGTCGG AGGACGAGGA 60
GAGCATCGTG GGGGATGGGG AGACCAAGGA ACCCTTCCTG CTGGTGCAGT ATTCGGCCAA 120
GGGACCGTGC GTGGAGAGAA AGGCCAAGCT GATGACTCCC AACGGCCCGN AAGTCCACGG 180
CTGAGCCAGG ATTCAAGGNT CCTNGTCCTA TTTNCAGCCG GCCAANNGGC GCTNGNAGGG 240
GNAAANCCAT ACGGTTGCGC TNNTGTCTGA GAGGAN 276

SEQ ID NO:6087

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07227

SEQUENCE DESCRIPTION:

GATCTTGCCA CATCTGGCAC GGAGACGACA CAGTAATNCT GAAAAAGCCT CTATGTAGTC 60
CTGTTAGTNT CTAAAGAAC CTAAAAGCTN GGACCAGTAA AATCCACAGA AATTCACTCT 120
TGCCTTTAAG AACTTTTGAA AACTGTTTAA A 151

SEQ ID NO:6088

LENGTH:373

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07228

SEQUENCE DESCRIPTION:

GATCCAATGG ATTTAAACAG AAGCNCTTTG CCAGGCTTGC CAGCAAGAAG GCAGTGGAGG 60
AACTTGCCTA CAAATGGAGT GTTGAGGATA TGTAAC TTC TNAGGCTGT GGGGGTGGCT 120
GGNCTGTGGT AGTGGGCATA GGCAGCGAGA TATCCAGTGG TAACAGTTGT CTGTGCTAAT 180
AATTGGAGCC CACACAGNCC AGCAGCTTGT TGAATGCCAG TTTTGACCAC AGAAGGTTTA 240
TTCGAGGCCT NATGTTTGGA CTGAGGTACC TGTACTTCTT NGGGTGTGTA CAGCACCGGC 300
TGTTGCTGGN TTTCAGAGGG AGCGTTGATT TCTCNTTGAC CAGGGNTTNT TCTTTGGTTA 360
GGGTGTTTCT TCN 373

SEQ ID NO:6089

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07229

SEQUENCE DESCRIPTION:

GATCAGNAGA GGCCANGCTC CNCCCCACCC CAAACAGCAT GAACTTCCCA AGGCTCCATC 60
CCTTTCTCCC AGTGCACAGG CTGGTCACTT TCTCCGGGTA CCCCCTTGGG TACCTTGGCT 120
GTCTCAGTTC TATTTAACCA TTTCCCCACT TTTGAGCATT TACTCACAGT TAAA 174

SEQ ID NO:6090

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07230

SEQUENCE DESCRIPTION:

GATCTCAGAT TTTTTTTGAA GTTAACATGC CTGACACAGA CATCCTTTCC TCTCACAAGC 60
TGTGTGACTT AGTAGATAAA ATACTGCCTT CTGCCTTTGG GACCATGATT AAAACAAAAG 120
ACAAAAACCA AAAGTCATTA AA 142

SEQ ID NO:6091

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07231

SEQUENCE DESCRIPTION:

GATCACTGGA CATCAAAGAT TCATTGCACT TATGAACAAG GAACCTTCTT TTCAATTCT 60
GTGTAATTG CAAGGCTGTA CAATGTGTGC TGATGCAAGC CTTTTTCAGT TCAAGAGAAT 120
AAATGTTTAC AANTATAAA 139

SEQ ID NO:6092

LENGTH:230

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07232

SEQUENCE DESCRIPTION:

GATCTATAAA TCAAGAAAAT CCATTGTCAT AACCATTTTT AAAAGTCAAA AATTAAGACA 60
TCCTTAATTA AAANGTTTCA AATCTAGACA CTAAATGTGT GTGANTGTAC AAAGAAAACA 120
ANCCATTGCT TATNCTGTTA TATACTAGTG NNCCTTTTAN TTTTGCTTGC TGTTTTAAAC 180
TTGGACAGTT TGAGGACTTT NGTTGGANCT TCGTATTGTA NGANCTGTTN 230

SEQ ID NO:6093

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07235

SEQUENCE DESCRIPTION:

GATCGAGGAC TATTCNGTG CTATTCATTC CTCCATTGCT AAACAGATNA AAAGCGACGG 60

TTNCTNCACT AACAGCAGCT GGGAAAGANG TTATGCTTGT TGN

103

SEQ ID NO:6094

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07238

SEQUENCE DESCRIPTION:

GATCCCAAGG ACCTGGAGCC ACGGGCTGCC AACTGCACTC GGGTACTGGT GTGGCATACT 60
CGGACAGAGA AGCCCAAGAT GAAGCAGGAG GAGCAGCTGC AGCGGCAGGG CCGGGGCTCA 120
GACCCAGCAA TTGAGGTGTG ATGGCGGCC CACCCCAACT ACCACCTCTT TTCAGGCACA 180
GACCTTGTGG GACTGGGNCC AGGCCTNCCC AGGATTGTGG GTTTTCCAA AGTCCTTGAC 240
CNTTTN 246

SEQ ID NO:6095

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07241

SEQUENCE DESCRIPTION:

GATCCACCAG CCTCAGCCTC CCAGAGTGCT GGGATTACAG GCGTGAATGT AATNNTTTT 60
AAAAAGAAAA ACATGGNTGT AAAGAAAGTA AAGCTTCGTT TTGAACAGTT ATGATGGTAA 120
CACANCTCAA NGGTGCAACT AANGCAGTGC TGCANCCN 158

SEQ ID NO:6096

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07243

SEQUENCE DESCRIPTION:

GATCTGTGAC ACTNACATGG CTGTGGTGTG CATACTGTGT AGTTACATAG CCCTTCCAAT 60
TCTGGGTCCA TTTGCACTAG CAAATTAAAA TATGCTTTGA TTCATACTTA AA 112

SEQ ID NO:6097

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07244

SEQUENCE DESCRIPTION:

GATCCCAAAC NACTCACTCC TTAAATTCAC ACTTTGCCAC TTAATCCAG TGTGGATGAC 60
AGAGCGAGAC CCTGCCTCAA A 81

SEQ ID NO:6098

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07245

SEQUENCE DESCRIPTION:

GATCAACCTC AACACCTGGC NTCTCANGCC TATATACCGA CATATNCAGC AAACCCTNAT 60
GNAGGCTACA AAGTACGCGC AAGTACCCAC GTAACGACG TTAN 104

SEQ ID NO:6099

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07246

SEQUENCE DESCRIPTION:

GATCTTTTCT AAATATTATT ACTTGTAAT AAAGTCTATT TTGNTCCCGT GAAA 54

SEQ ID NO:6100

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07249

SEQUENCE DESCRIPTION:

GATCTAAATA TGAAAAGTAT GTCCTGCTGA ATTTTCCTGT GNATTGGTGA GCGGACAGAC 60
TACCTGTAAA CCATGACCTC CTTGCCAAAC GTTAGTTTTA TNAGNTCACT NGTAACCTTT 120
GAGAATNNTC TGN 133

SEQ ID NO:6101

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07250

SEQUENCE DESCRIPTION:

GATCGTNCCA CTNACCTCCA GCCTGGGGGN NAGAGCAAGA CCGTGTCTCA AAAACAATTN 60
AGTCTGAAAC ACAATTGTCC TGAATCTGTC TGACTATAAC TCTN 104

SEQ ID NO:6102

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07251

SEQUENCE DESCRIPTION:

GATCTCAAAA AAGAAGGAAT TTCTCCTNTN TNTCTGCAG TTAATGTAAG ANTACTTTAA 60
ATCTCTAANC TTCTGAAGTG TTAGAGGTAG AGATGGTCTA GTAAAGATGT GGTAGTAATG 120
TNTTAN 126

SEQ ID NO:6103

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07253

SEQUENCE DESCRIPTION:

GATCAAGCCA TCGGAGCTGC TAGAGTTCTG TCTGGACTTT CCAGAGACCA AGTNTTCCCT 60
TTTGCTGCCT CTAAAAGGCC TGTGCCTGCA GACATGTGAG ACAGCAGGTC TGATGGGGGT 120
GACAAGCTTT NTTTTTTTNN CCNAAAGAAN TTNCAAATTC AATTCCAGAT TGNTTTTNN 179

SEQ ID NO:6104

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07257

SEQUENCE DESCRIPTION:

GATCAAATTT CANTGGCTTT NGACAGAAAA GAAGGCTCTG GATTTAAGCG GGTGGTCACC 60
TGTNAGACCA GGTCTACCTT GGGACTGTNA TTAACTGAA TCAGTTATTT CCTTGAAATT 120
TCACAGTAGT GGGTGGGCCT GTTTTAAGGN TCTGACAGAT ACCACGAAAC ATGAAGCAGC 180
TGGAATAACA AGACCCCGG GGTCTTTCTG AGTGCAAGGC TGAAATGGGN CAAGGGCTCC 240
TCACGGGGNG TGGAGGGNNG CCGGGAGNCT TNCNTGGTTG TTNCNTTTTT TGN 293

SEQ ID NO:6105

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07259

SEQUENCE DESCRIPTION:

GATCCCGTNC GCGCGCTGC CCGAGAGGAA CAATGACAGC TTTGCAGTTC TCCNGGAGTN 60
CGCTGAGGAG CAGCTGCAAG CCGACCANGT NTTCAATTAC TTCCACAAGN 110

SEQ ID NO:6106

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07261

SEQUENCE DESCRIPTION:

GATCTAGTAC TCCTTGATGA AGAATCGGGG CCTGTAACT TACCTCCAGC ACTAAAACAT 60
CCTCANGANT TACTATAATG TGTCCAAAAT ATCACTGCAT ACAATATCTG NNATTTGAAG 120
TGAAAAACTG ACTTTNGTAT AGTATAAAAC ACAGGCTTTC ACAANTTTTG GTNTNGCTGG 180
NTN 183

SEQ ID NO:6107

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07263

SEQUENCE DESCRIPTION:

GATCCTGANG ATGATGATGA TGATGATGAT GAAGAATAAA TGGAATCAAA ATGCTAGCTT 60
 NATTTGACAT NAATAAGTAA AATAAGTCAT CATGTNTTCA ACNCTGTAGT TCAGCTGTTT 120
 ACATTGAATA ATNTN 135

SEQ ID NO:6108

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07264

SEQUENCE DESCRIPTION:

GATCCTTTCC AGTTTAAAGCA GCCAATCAGA CCNCTTCACA TTTCTAAAAA AATGACCTAA 60
 CTAAAGCACC AGAGCTCGGA GANTTCCAGG GAAGCCAGAT ACCGAGGCGC AAATTTTSTA 120
 AAAAATAAGA GTCAGAAATA AAAATAAANG GTNTCTGTTG GTCAAGATTT AAA 173

SEQ ID NO:6109

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07265

SEQUENCE DESCRIPTION:

GATCAATTGA AATCAACTGT GTTTTGNTT CTCTATGTCA AAGTTTAGTT TTATATTGAG 60
 AATGTAACT TATTGCTTTG TATCTNGGGA AAAAACTTT GTAAATAAGN TATAAAGTTT 120
 CTTTGAGACA GTAAATTAT GATTNCTTGA AA 152

SEQ ID NO:6110

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07266

SEQUENCE DESCRIPTION:

GATCTGCTCA CCTCGGCCTC CCAAAGCCTC AGCCTCTTAC AGTGTGGGA TTACAGGCGT 60
 GAGACACTGT GACCCGGGAC GATTTTCAAT CACAGTTTTT TGNTACGAGT GGAAAATGCG 120
 TATTTATAAG AATGAAGTAG TACAGACATG ANTNTGTAGA AATCTCTATA ATCCTGCCAT 180
 CCAAGGTTGG TACCTGTAA TGTGTATATC AGGGATGTGC AATCTTTGG CCTNCCTGTG 240
 CCACACTTNG AAGAAGAAGA ATCGNCTTGG GCCACGGATA NANTNNCACT AACACTAGCA 300
 ATACCTGGTG NGCTGAAANA GNNAGTTAAT TCNCNTN 337

SEQ ID NO:6111

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07267

SEQUENCE DESCRIPTION:

GATCCTGTTA ATNAAACCAC AGACACCATA TATCCTTCTG CATCCTTTGG CCAATAAAAG 60

TTGCTGGAGA ACCAAA

76

SEQ ID NO:6112

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07268

SEQUENCE DESCRIPTION:

GATCAAGGAG AGTCACAGCC TTATTAAGG TTTATTAAAC AATANTATAA AANTTTTAAA 60
CCTACTTGAT NTTCCATAAC AAAGCTGATT TAAGCAAAC GCATTTTTC NCAGGAGAAA 120
TAATCATATT CGTAATTCA AANGTTGTAT AAAANTATTT NCTATTGTNG TTCAAN 176

SEQ ID NO:6113

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07269

SEQUENCE DESCRIPTION:

GATCGACACG TGGGGGCGCC TGAGCGAAGA TAACCGTAAT AAATAGTAAC CTAACGGTCC 60
AAA 63

SEQ ID NO:6114

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07270

SEQUENCE DESCRIPTION:

GATCAGNCCT CGCGCAGTGG CTCAAGGCTG TAATCTCAGC ATTTTGGGAG NCCGAGTGAG 60
ACCTTGCTT AAA 73

SEQ ID NO:6115

LENGTH:243

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07272

SEQUENCE DESCRIPTION:

GATCTTAAAT ATTCTAAAGT TTGTATTGTG ACTTCCAGTA ATGTAAACTA TATGAGGCTA 60
ATCCTCTTTT CCTCCTTTT GTTTGTTAAC CTCATTTGGG ATAAGTGTA CTAGTATTAT 120
TTTATTATG TAATAAAAAAT ATATGTGAAA TAAAGTGTTA CTGGTAAAGG ACTTGTAAC 180
ATGATAANTA TTAGCAAGTT GCATACAGAN TTAANAGNGN GGNGNGNANG GNGTGNGGTN 240
TGN 243

SEQ ID NO:6116

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07274

SEQUENCE DESCRIPTION:

GATCAGAAAGT TCAAGGGACC GTGAAAGCCC TCAGAGTCAG CACCTAGTTT CAGACCAAGC 60
ACCCTTTCGA ATCCCTGGAT GGCTGAGGGG GCTGAGGCCG GCTCTGACTG GGCAGCTCAG 120
CNCCTCCCCC AGAGCCCAGG GTCTTGCACA CCCCTNCCTG TAACCAAGGA AACTCTGAA 180
ATAAAGGTGA ATGGCTAAA 199

SEQ ID NO:6117

LENGTH:283

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07275

SEQUENCE DESCRIPTION:

GATCAAAATA CTAATAAATT ACTCACAGAC TCAGTGTATT TTTNCTTGGA GTAAAAGTCC 60
AGGATGGGTA ATAGAATACC TGCTGTTGGC TTTTGGAAAA ATTGGTACTG TATGTAGCAA 120
AATAATGTGA AACCCATATG CATGGATATT CTTAACAATT TGAAGAAATC GTCACAGCTT 180
TCCTGGGTTG TTGAGCCTCT AAGATGGTCT TTTCTCTGA TGTGATAATA AAGTGTATTAT 240
TCTGANCTCT AAAAAAANN NANNGNGGNG NNTGNNGTGG NGN 283

SEQ ID NO:6118

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07276

SEQUENCE DESCRIPTION:

GATCACAGTT TTACAAATCT TAGTTTTAAA TAAATTATTT CAGTGTGCTG TTAGTCCTCT 60
ACAGTCATTT TGGTTTAAAA AGTGACTATT TATTTATGGT AGNATATCAA TAATTTATTA 120
ATGTTAAAAA ATACTGTGTA TGACATTACA AACCAGANCA GTTCCTGGGG GAGAGGNTTC 180
TNATTGATTG GCAGTTCGA GAGGGCAAGA NGANTGGNAC TTTATNCTTC AAAAGGNGGT 240
TTTGGTTTTN CCAGGTACTG CTTATGTNAA TCGTTTATTT TTNTTTCATC AAAGCCTGGC 300
ANGTNTATGC NTTCCAN 317

SEQ ID NO:6119

LENGTH:360

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07277

SEQUENCE DESCRIPTION:

GATCGACGAG CTGCTGCAGG AGTTCGAGGA GAAGAGTGGC CGCACCTTTC TGCACACCGT 60
CTGCTTCTAC TGAGCCCAGC GCCCGCATGG AGCCGCCTCT GGAGCTTCCT GTTGTTTATA 120
CTTTTTCTT CCTGACATTT GTTTTTACTT ACAGGTGTTC TGCTGGTGAC GGTAGCATT 180
CCCAAATAAA CTGTGCATAT GAAATGGGAG AGGAGATGCC AAAACGCCAG ATGAAAGCAA 240
TCAAGTTTCT TCTTTTCCAC TTTTACTTAT GAGCGGGATA TTGATTACAN GGNNTTCTT 300
CTTTAACCAG AAAGGAAAGA CANGGTTTG TGTGCACTTC CCGNCATACC TGTGTCTTTN 360

SEQ ID NO:6120
LENGTH:292
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07278
SEQUENCE DESCRIPTION:
GATCGGGAAG ACTGAGTAGG GAAGGCAGGG CTGCCNAGAA GTCTCANAGG CACCTCACGC 60
CAGCCATCGC GGAGAGCTCA GAGGGCCGTC CCCACCCTGC CTCCTCCCTG CTGCTTTGCA 120
TTCACCTCCT TGGCCAGAGT CAGGGGACAG GGAGAGAGCT CCACACTGTA ACCACTGGGT 180
CTGGGNTCCA TCCTGCGCCC AAAGACATCC ACCCAGACCT CATTATTTCT TGCTCTATCA 240
TTCTGTTTCA NTAAAGACAT TTGGAATAAA CGNGCATATC ATAGCCTGGA AA 292

SEQ ID NO:6121
LENGTH:30
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07279
SEQUENCE DESCRIPTION:
GATCCAATAA ATNTCCTTTT TTTGCTTAAA 30

SEQ ID NO:6122
LENGTH:149
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07280
SEQUENCE DESCRIPTION:
GATCGGGAGA GGGAGGAGAG GCAGTCTCTT GACAAAATAA AGTATTTTTA TTCATTTGTG 60
TTTATTAAAT GAAAAANCAA TCCCATGGTG TCCCTGTTGT GTGGTGGACC TAATGNCTGT 120
TGAAATAAAG TTCTGTGTTT TCCCTGAAA 149

SEQ ID NO:6123
LENGTH:216
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07281
SEQUENCE DESCRIPTION:
GATCCACCAA TGGAATTAGA TGGGTAGAGT TGGGTTCTTG AGTTTTACCA CCACTTTGTT 60
CCCACTGAAT TTTGTAACCT GCTGTGTTTG CATCCTCTGT TCCTATTCTG CCCTTGCTCT 120
GTGTCACTC AGTCATTTGA CTTAGAAAGT GCCCTTCAAA AGGGGCCTGT TCACTGCTGC 180
ACTTTTCAAT GAATTAAAAT TTATTCTGT NCTAAA 216

SEQ ID NO:6124
LENGTH:205
TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07282

SEQUENCE DESCRIPTION:

GATCTCATCA ACCCTTTGAA ATGTTCTGGG CAGCACAGCT CCTTGGTCTG CATGGTTGGT 60
GTAAGTATAA TCANGTAGTG AAATTGTATG GTATATACCT ATATGCCANC AGTGACACC 120
CGTATGTGCA GAATTTGCTA NTATAACCAT TTCAATAAAA ACCTATTGAA AAAGCTGAAA 180
AAANNANAAA NGNAGGAGGN GNGGN 205

SEQ ID NO:6125

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07283

SEQUENCE DESCRIPTION:

GATCTTTGCC AGGGGTCAA GCGTCGGGAA GCTTGGGGTC CTTATCCTG ACGTTATCAC 60
CAAATTTNAG CTGACCATGC CCTGCTCCTC CTTAGAAATC AATATTGGAC CCTTTTGTG 120
AAGATTGGTC TCTGTGGTGT GATTCTCTNC CCAGGTGTCC CTTTCTCCTC CCCTAGTGTC 180
CTTAAGTCCT CCTCCACAGG GAACATCTAT TTGGGCTTGT ATGTTTAATA AAGTAGAAAG 240
CACTGGNAAA AAAAGAAANN NGNNNTGTGT NTGTTNNNN 279

SEQ ID NO:6126

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07284

SEQUENCE DESCRIPTION:

GATCCTAAGG AACATAAAGT TAATTAAGAA CTTACACCTA ATTATGTAAA TNGCCTTGTT 60
AAAGACATGT GATTTGTATT TNAGATGCTT GTTTCCTATT AAAATACAGA CATTTCTACC 120
CTCAGTTTCT AAATGTAGAC TATTTGTTGG CTAGTACTTG ATAGATTCCT TGTAAGANAA 180
ANTGCTGGGT AATGTCNCTG GTAACANGCC TGTNANTATN TNANGN 226

SEQ ID NO:6127

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07285

SEQUENCE DESCRIPTION:

GATCCCATTT AGCCCCTGAA CATAATACCA TCTGCAGTAT TATAAAAGTC ATTTAGAAGG 60
TCAGGGGGAT AATCTAGAGG CAGGATTTTG GACATTGTGA AGGAAATGTG CTCCTTCTCA 120
GCTCACTTCA ATAATATTT NCTGAGACTG AAGTTTTTTA GACAAGANTA AGANAACCTT 180
GCTTTNTTCA GTTATCATAT GTGANAGCTT TTGCTTTTGG TTAGGAAANG GTGTGGNTGA 240
CTCTACTGCG TGGNTGGTTA CATTTTGCTT TCCGTGNAAT TGCTCNGGAA ATGNTCNGGA 300
CATNCCNTTT NCCATTTGTG TGTCAGTGCG TATGGTNAN 339

SEQ ID NO:6128

LENGTH:269

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07286

SEQUENCE DESCRIPTION:

GATCTCCTAG GACCTAGTGG ACATCTGGNA TTAATTTAAT CTCAGGAAAA ACAAGANATN 60
AACCCAGAGA GAGTCTGGGT TCTGGAATC AGCGTANTAC CTCCAGACCG TGGTGTCTGG 120
CCTCCATTTT TGTCTGTNAT TCAGCTCTGA CTTACAGCTG CAGTCACCTT TNCTATAAGG 180
CACCTGGGTA GAAGGGTGGG TGGGCTTCAC ATCAAATTTT TTNCTTCCTT TAGGGTGGGG 240
NATTGGNTTG GCTNTNTTTT GTNGTGGNN 269

SEQ ID NO:6129

LENGTH:47

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07287

SEQUENCE DESCRIPTION:

GATCTGTCCT CCAAATCCTC TATTAAACCT GATAGCTTGA GCACAAA 47

SEQ ID NO:6130

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07288

SEQUENCE DESCRIPTION:

GATCAGCCCT TCTCAGCCTC CCAAAGTGCT GGGATTACAG NTGTGAGCCA CTGTGCCCCG 60
TTCTGTGGCC TTTTCTAACA TTATCCAAGN NGCCCTAAGG TTCCTTATGA CAGGTTTGGG 120
GATTGGGAAA GTTCAATTTT ATTGTACCGC CAATGAAAAG GTGCTATATT TTTTCTTGA 180
ACCTNAAGGG CAGAGGCTGA ATTAATCATA TTCCTCAGCT CATTCCACAT TATCATGGCA 240
AAGCTCTCTT TTGCTTTATT TATTTATTCT CTNNTATCTT CATACTTAAT CTCATTCCAT 300
TCTCTGNCAT GGGCAACCAT NNNAATNGNN 330

SEQ ID NO:6131

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07289

SEQUENCE DESCRIPTION:

GATCTTACAT GAGCATAATC ATCCTTATAC TTCATGAGGG GATTATNAGT ACAATCCCCA 60
TTTTACTGTG TTTGAGTTAA AAACCAAACA TCCCTGTAAT TTAATTTGAA GATTCTTTAA 120
CAGATTGCAG CAAAGTTCAT TATAAACTG TTATGGTGTG TTCAAAGNCT TGATAAAANT 180
AACACTGNGA GAGANTTGGT CCATTTGTAT GCTGTATTTT TATTAATTGC CAAANGGAAT 240
GGGGNTAGGA TTAACCTTGT TTCCATTCTC TTCNCATGGG TATCCATCCC CATGTTTANC 300
TGNCACNCT GGGGGGCTCN GTTGTGTGCT GTN 333

SEQ ID NO:6132
LENGTH:21
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07290
SEQUENCE DESCRIPTION:
GATCATAAAT AAATGTTTAA A

21

SEQ ID NO:6133
LENGTH:331
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07291
SEQUENCE DESCRIPTION:

GATCATTTTC AAAAATTGCA TTGGGGCCTT CGTTATTTAC CATAGTATTT NCACTTTCAT 60
AGTTTTGTCA CCTTTTGTGA CTGTGAACAG TTCAACCAGT GACCGACTTC TCTCTCATGC 120
TGTTTACCCC ACACACAATT TCCCACTCAA TTCTGAAAAT AAGAACCTGT TAATAGGTG 180
GAAAGCTGTG TACTCTATTC ATATATTGTC CTTTCATGCT AGTGGAGAGT GGTGTCATTA 240
GCATCTNAAT TTTAGAGTTG TGNAATGATT TTNCCAATTA GGAATTGANT GTGTATTNT 300
NTCCTGTTTA ATAAGNNGNG CAAATNTGNT N 331

SEQ ID NO:6134
LENGTH:40
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07292
SEQUENCE DESCRIPTION:
GATCTTAAAA CAAAATGAAA TAAACGTGAA AAGGAGCAAA

40

SEQ ID NO:6135
LENGTH:53
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07293
SEQUENCE DESCRIPTION:

GATCGTGAAT AGTAAGTATC ACTTCATAA ATAGAAAGTG TCAGAAAAAT AAA

53

SEQ ID NO:6136
LENGTH:336
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07294
SEQUENCE DESCRIPTION:

GATCTTGAAA GAGGTAAAAT AAACCTTCAC TGCTCCACTC CAGGTGAATC CGCCCACTCC 60
CACTGACCTA GTAGAATTTG TAATTTAATA CTTACCTTCT ATTTCTGAAA TCAGTTGTGA 120

ACTGTTGCCT TATGTTTCAGA GGTTTAAGAA CCTCAGTGAA TTCATTTTTT AAAATCTGCT 180
ATTCTGAGAA GCATTGAATG AATTCTTAAC AAGAAGNCTC ATCTGTAGCT GTTTGCTGAC 240
TCCTATGAGC CCATAAGGGT TCTGTGCTTA GCATTAACAA ANTAAGGTTT ATAGGGTAAA 300
AGCCAATGTA TTANTTTTTT TTTGCATGGG GGGCNC 336

SEQ ID NO:6137

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07295

SEQUENCE DESCRIPTION:

GATCTAGGAC ACTCATATCC AGGGTGATTC TCTTCATAAG GAGGCATGGG CTGAGTCTCC 60
ATTTATAGGG GCTGTCCCCA TAGAGACTTC AAGCCACACC TTTCTAGGGA TTCAGGTTGC 120
ACATTACCTG ATTCTCACAG TTGATTTGAG CCTGCAAGAC TGTAACCCCA TCCCATTATC 180
ATGTTTCTT CCTCATTTAC CTACATTTAT CATTAAACCT TTGTGATTCA GCAA 235

SEQ ID NO:6138

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07296

SEQUENCE DESCRIPTION:

GATCCAGGAT GACTGTACAT CTCAGATAAA GGAGGCTCAG CGCTGGAAGG ACAGCTGGAA 60
GCAGTCCCTG CACACTATCC AGGGCCTGTA TGTGTGACCC TCCGCCCCAC CATGAATAAA 120
CACTTTCTTA TACAGACTCA AA 142

SEQ ID NO:6139

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07297

SEQUENCE DESCRIPTION:

GATCCGCCAA GCAGGGCAGT ATCTGGGTTA CAGCCACAGC AGGAAGAACC ACTGGAGAGA 60
CACTCAGAAG GACTTCCCTG ACATCTGCAC CAAGGAGAGT CTGGACAAAG CTACTGAAAC 120
TCCTCCACCT GCTTCTAAAA TGCCCAAGAAG CCAACTGGAC CNGTTTGGTA TTTNGAAGTA 180
GGNGGNTGGN GGCTTTAACC NCCAAAGGGT TCCTGAAGCC CNGGAAGTTG GANTNTGGAG 240
GGGGTTNNGG CCTTANTTGA GGGTTGGTGG GTTTCNN 277

SEQ ID NO:6140

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07298

SEQUENCE DESCRIPTION:

GATCAGAAAA CATTGATTTA TATTTAAAAA TAGGATATTG GAGCCATTGT CTTAGATAAT 60

TNNCAAGGCA AGANCAAGCC TGCAATAAAT AATGAGACTT TGACATTCCT TGGCGAAGAA 120
GATGTCTCCT GCCCTAATAT GACTGTCACT CAGCAATTTC ANTTTNTGT TTACTTGATT 180
TANAANGGGA GGATAANTTG TCCTGANAAG TTTTTTGTT TCCTTAACAT TTCANNGTTT 240
TCNCTGN 247

SEQ ID NO:6141

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07299

SEQUENCE DESCRIPTION:

GATCCCTGAT GGGATGCCTG AAACCCAAAA TACTCTTAAG TCTTGATTTC TAGGGCCTTC 60
TAAGGCAAAA NATTGAGAGA CCCAAAAAGA GAAAATATGT TTAGTAAAGA AAATATTNC 120
TTTGACTAGT TATGATGGTC ATATAGGGGA GANAAGGCAA ATTTGGNAA TGTAAGATGG 180
GGACANTTAA TGTNTATNCN CTGTCCAANT TCAANAGGTA CAACNGAN 228

SEQ ID NO:6142

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07300

SEQUENCE DESCRIPTION:

GATCCACCTG TCTCTGAAA ATATAAAAAG ACAAACAGG TTTGCCTTGG CATCAGAGAG 60
CACAAAGATT AAAAGTTACT TTAAATTTGC CAATATTTG GGAGANCAAT AAANCTACAT 120
TTTTCCCTCT TCCATACTGG TAGATGCGAA ATTNATCTGT GCATGANAGG GTCATTCTG 180
TNATCGTGCA ACAGNTTTGG TATTANNCT TNNCTGTGGT TTNCCAN 228

SEQ ID NO:6143

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07301

SEQUENCE DESCRIPTION:

GATCCTCTGA TATACAATTA GAGATATTTT AATATAGNCC CCAAGCATTC TGTGCATAAA 60
AGTTAACATT AGGCTGTGGT GCAGTAACCA TTAAATGTCG AGGCTCTATT TCGGAAATAC 120
ACTACAAATG TTAAAGTACG TGGCTGTCCT CTTAAGNCAC TAGTAGAGCA AAGCCTTAAT 180
CATATCANCT TAATTCTGTT ACACAATATG TGTTTTNAA TATACTANCC ATTTCTNATG 240
GAANGGTCCT GTGGGGNGCC CNTCCTCTCG CCANGCCATC ACAGGCTCTG CATACACGN 299

SEQ ID NO:6144

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07302

SEQUENCE DESCRIPTION:

GATCGGGTGC TAGGACAACT GCAGTCCAAT CCACCAGCTC TCCNTGCCCC TGTGTCTTAT 60
 TTCAGACATG AGAATAACTG TACAGTGTA ACTTATAAAG CGTTTTTAAT GGTTGTAGAT 120
 TGGAAATAAA GTATGTCATA TGAACAGCTA AA 152

SEQ ID NO:6145

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07303

SEQUENCE DESCRIPTION:

GATCCACCT GCTCAGGCCG TACACCTTAT GGGGAGCCAT TAAGGGGNCT CATCTAGGCA 60
 TTCTGGNTAC AGCCAGTGC TCATCCAGC GTATGCTCCN CTCTNTAGNG CAGCCTAAAG 120
 NGTCAGCCAC N 131

SEQ ID NO:6146

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07304

SEQUENCE DESCRIPTION:

GATCTTCAGA GAAATAAAAC TTGAGTGCAG TAGTTTATTT GGC GTTGGC TCCAGGATGC 60
 AGGNGTGGGA AAGATGGTAG AGAGCCAGAA GAAAANTCAA TAGAACGGTA TTACGGCGNN 120
 TGGNTATATA ATNCTTCCCN GAATTGTCTG ACTN 154

SEQ ID NO:6147

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07305

SEQUENCE DESCRIPTION:

GATCCAGTGC TATTCTGTCA CCAACCTAAG AATCCCAATT GCACCTTCTG TTTCTGACAG 60
 TCACAGGTGA CAGCTGNNGN TCTATAATAC AGACTGGTGT CTTAGAGGTA GGAATAATAC 120
 ATGATTATNA AGCATCACCC TGCTAATACA TAATAATGTC TTTTATATT ATAAGNGATT 180
 GAGTTTAGTT CATTNCAATA CATTTGTACN TGTA AAAANT GCAANGTNGA CCTNNGTAAT 240
 CNTTTAATCG N 251

SEQ ID NO:6148

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07306

SEQUENCE DESCRIPTION:

GATCTCGGAG ACTCNGTCCA TTCTAAGATA CCATGTTTCC ATGACCCTAC ACACAATAGC 60
 TACACAGGTG GAGCAACATG AGTCTGAGNA GCTTTGCACA AAAGANGCTT GTTTTCCACA 120
 AATGNANCTG GGGTGGTTAA CTTCTAATTG TACCCTGTCT TAGCGTTCAG ATGCATTGGT 180

TCCTTCCCCA ATGTGACCAT CTNNNNATTC NAN

213

SEQ ID NO:6149

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07307

SEQUENCE DESCRIPTION:

GATCAAGATG AATNTAATGT ATAATCAGAA TCCTAGGTAA GTAAACAAAA AAAGGGTTTT 60
TTTNAGAATC AAACCTTTGG GGATTGGGTG GTAAAGGGAA ATATTTNTNT NCN 113

SEQ ID NO:6150

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07308

SEQUENCE DESCRIPTION:

GATCTGTGCA TCTGGCCAGC ACTGTGGTGA CATCCTTAGG AATCCATGGG GAGAGAGAAA 60
GCATTCAGGA GTTAGTGGGT CACGTTTGAC AAGGGCCAAT AAAGAAATAT GCAAAGACAA 120
AAANCAAGAA GNACATTGTC ATATTTNCTA CCTTTTGTTT ATATAAATTT ATNTCANTGA 180
TTTTCGCTTN TGTTAATNTG CAATGTATAT NNTATGCTAA CNTTTNCN 228

SEQ ID NO:6151

LENGTH:42

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07309

SEQUENCE DESCRIPTION:

GATCACAATT GTGGACATTA AAACAGAAAC TGTTACACA AA 42

SEQ ID NO:6152

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07311

SEQUENCE DESCRIPTION:

GATCCAGCTT ATNCTTTAAT TTTCAAGTCC ATTCTTGGGG CTGGTGGGGA GGCAGGAGAA 60
TACCCCTCCC TAAGCCCTTA GTGTGTGCCG AGCTTGCTTT GTNATGTTGG CAGGGGAGGG 120
GAGACCTGGG TGGTGACTGA GTTCCCTTGA TCAAACCCTT CAATGGGCAC AAAATTGAGT 180
GCTTGATTTT AGGTTTTATT TTTTNATGAA TGTCCAAATC TGTGTTTCCC CCTGCCATCC 240
CAGACTNTGT GGCCAGTTNA AAAGTGTCTG GNNTGTGTTC ANCTCTNCCC TAANATNCTG 300
GAGNAGGGGT N 311

SEQ ID NO:6153

LENGTH:270

01801

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07312

SEQUENCE DESCRIPTION:

GATCTNNGTG GGTAGCCTCA AGCTGGAGAC ATTGTCTGNC CTCACTGCCC ACTGGGTAGA 60
GACACCTGGA TGACATTTC A GTACCCGCTG GCAGCTCCTC CCACTCATCC AGAGACGGCC 120
GGTGGGCAGG CGGGGAGAGC AGCTTTCCTT CCCTGGNGAG AACCGTCTT ACCTCAGCTC 180
CTAGGGNCTC CAGCCAACAA AGCTNCAGCA CGGTGACTNG GTGATGGGNG ACCAATNNCA 240
GAAGTAAANN GACTGTAGAC CNATATTCCN 270

SEQ ID NO:6154

LENGTH:40

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07313

SEQUENCE DESCRIPTION:

GATCAAATTC TAAATAAAAG TTGCCTGTTG TGA CTTTAAA 40

SEQ ID NO:6155

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07315

SEQUENCE DESCRIPTION:

GATCTATACT TAACATATTT AAAATAGTGA TGATTGAAAT AACTGCAAGG TATAGATGNA 60
ACTGAAGGNT TTCACATTCC TTTTGTGTTT ATCATTGGA ATTNCTGTA TTTANCTGNC 120
TAGAGANCAN 130

SEQ ID NO:6156

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07316

SEQUENCE DESCRIPTION:

GATCATATCA CTCAATGTGG CCATTAATAT TTCTGGAGAA GACACAAACC TATTTATAAT 60
ACTTTTNA AATCCGAAGT GATAATAAGA NTGTTTTTAC ATTGAAAGTA ATACTTAAGT 120
GTTTACATAA CATTCTGTAT GCACTCAAGA AAATAAAGTT TTGTTAATAC AAA 173

SEQ ID NO:6157

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07317

SEQUENCE DESCRIPTION:

GATCTCAGTT ACAGTTTTTT TTTCTTTTT AATTCATTA TTTTGGGTTT TTGGTTTTTG 60

CAGTCCTATT TATCTGCAGT CGTATTAAGT CCTATTGCTA GAATAGGTTA CTNNANGAAA 120
GATTATATTC TGAAAGAAAA ATAAGTACATA TTATATATAA CCAATTAATT TAANGTATTG 180
CCATTAAAT TACACACTGN GAGCATGTCC TATGCAGACA ATAGATTTTN CCTGTNCAAN 240
NNNTNTN 248

SEQ ID NO:6158

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07318

SEQUENCE DESCRIPTION:

GATCCAGCAG CGCAGGCAGG AGCTGGAGCA GTCGCTGGTT GTNCGCAACA CCTAGGAGCC 60
CAAAAATAAG CAGCACGACG GAACTTTCAG CCGTGTCCCG GGCCCCAGCA TTTNCCCCG 120
GGCTCCAGCA TCACTCCTCT GCCACCTTGG GGTGTGGGGC TGGATTAAAA GTCATTCATC 180
TGACAAA 187

SEQ ID NO:6159

LENGTH:21

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07319

SEQUENCE DESCRIPTION:

GATCATAAAT CCCTGTCTAA A 21

SEQ ID NO:6160

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07320

SEQUENCE DESCRIPTION:

GATCAAACGT GCTTAAGAGC TAACTCGTGA CACTATGCAG TATTGTTTGA AGACCTGTTG 60
TTCAACCTCT GTCTCTTAT GTTAACTGGA TTTCTGCATT AAATGACTGC CCCCTTGTTA 120
AA 122

SEQ ID NO:6161

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07321

SEQUENCE DESCRIPTION:

GATCTCTGAC TCATTGTGGC ATATGAGGTG TAAATNTTG TCAAAAAGA ATCTGGTGTG 60
TAAACCAAAA TCACACTATG GTGGCATTAA ACCGTTCACT TTTATTCTAA ACNNNANCCA 120
NCGCN 125

SEQ ID NO:6162

LENGTH:41
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07322
SEQUENCE DESCRIPTION:
GATCTGTCCA CGACATGGAA AATAAACTGG ATTTTCAGAA A 41

SEQ ID NO:6163
LENGTH:137
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07323
SEQUENCE DESCRIPTION:
GATCCTATAC GTGAAGGAAC ATATTTAATT TCCTCNCTTT ATATTCCTG GTTAAAATAT 60
CGTCATTATA GTTAGCAATT TGAATCTGG CTTACATTGG TTGATACAAA TAANTAATAG 120
ANTANNGCAA NATCAGN 137

SEQ ID NO:6164
LENGTH:88
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07324
SEQUENCE DESCRIPTION:
GATCTTTTTT CTATGCGTAA TCAGACATAC ATATATACTG CAGTGTATCT CACGTATTAA 60
TTTTAAAAAA TCTTTTGTTT TACTTAAA 88

SEQ ID NO:6165
LENGTH:274
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07325
SEQUENCE DESCRIPTION:
GATCTCTGTA TTTGTNTTTC AACTAACAAC TAATTTNAAA TGTATTGTAT CTTTAATNAC 60
CTGTNCTCTT AGATTGTNTT TTGCTAGTAA CCCTTACTCA GCTTCTGCCT TTGGGGCTTG 120
GACTAATATT GCTTGTATGG AACTACAGTA CTGTGACTAA ACATGGAGCT CAATGCAGCT 180
ACTGCTTACA ACTGCTTAAA CTTTGTAGTG TGGACTTCAT TTTTCTGT AATAACANCT 240
TATTAAATCC TNGGTGGTAT GCGGTCCTG GAAA 274

SEQ ID NO:6166
LENGTH:310
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07326
SEQUENCE DESCRIPTION:
GATCATGTTC AGAAAGGGAC TCATTTGGTC CCACTTTGTA ACATGGGAAG AGTAGAAGAG 60

AAAATTAAAT GTGGAAATCA TAAATGCTTT TCTAACAGGG TTATGCTATT CTGTAACACT 120
 AAATGTCTGT CTTTCTCTT AAAAGATTAA GTTTTATTAA TTTTGTCTATA CATTCTCTA 180
 TTTGANTATA TCTTAACCAT TTTATGTTCC AAATTCGTTT TTTGTCCAAG ACATTCTATC 240
 AGANTTTTNC TTGCCTCTAT AAATCTGAAA ANTGGGTTCT AGAATGTCCC ACTTGCTGTC 300
 TCTNAGAGTN 310

SEQ ID NO:6167

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07327

SEQUENCE DESCRIPTION:

GATCCGCCCA CCTCAGCCTC CCAAAGNGCT GGGATNACAG GCATGAGCCA CTGCACCTGG 60
 CCTTAACCCC TCTTTAGATT GGAAAAATA NTTACAACCT TAAAAATAGC TTAGTGTTGA 120
 ACCCTTTGGT AAATAAAGA CCCTTTTATA ATGCACATAT TCCCAACANG GTTAATATAT 180
 TTNGTGAGAT TAAACAAGGC TTGTATATGC TTGACCTTTC TTAANNTATG TCCATGTCAT 240
 ACTATTATGA NTGTACATTT TTATGAGTCA TNANTATTNT TTTCAAANG CGCTNCAGGC 300
 CCNTGAN 307

SEQ ID NO:6168

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07328

SEQUENCE DESCRIPTION:

GATCAGAAAA TGTGTGACCT TTTTAAAGTT AAATTGTAA AAAATTTTAA CTATTAANCA 60
 TTTTAAATAT TAAA 74

SEQ ID NO:6169

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07329

SEQUENCE DESCRIPTION:

GATCTCAGAT GCTAGAAATA GTAGACAAAG ATGTTATTTT CCAGTGCAA TAAAGAAATA 60
 AAGATAGCAA A 71

SEQ ID NO:6170

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07330

SEQUENCE DESCRIPTION:

GATCTCAATG TGCAAACTCC TTGGACTCCA GACCCCTGTC TGGTTGGCAC TCCCAGCAGT 60
 GTGTGGTTTC ATCAGGAAAT CCTTGCAGCA GGGGTTTAGA TGGTTCCTTC AGGAGGTGGG 120

NAGCCTCCAT AGCATTGAAG GCCAGCCTGC ATCTCGCGGT GTGTGTCCAC TTCTCCNCTC 180
ACTTTCCCCT CACCCATCCC TTAAAGTGA TTGGCTGTNA GGNGCACAGA GGGTGGCAAT 240
TCCATCTGTN ATGGGNTCAG AAGGCATTNG CCGCCATTNT TGATTNACA TTAAACTGA 300
TGNAAN 306

SEQ ID NO:6171

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07331

SEQUENCE DESCRIPTION:

GATCTGTCTG TTGTTGGAAT TGAGATATTA AAATCCCCTA CTATTATAGC GTTCCTCCAG 60
TCAAA 65

SEQ ID NO:6172

LENGTH:33

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07332

SEQUENCE DESCRIPTION:

GATCTTCCAG CACCAAATTT AGATGGCCTC AAA 33

SEQ ID NO:6173

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07333

SEQUENCE DESCRIPTION:

GATCAAATGT GTGAGAAAAT CAATGGGTTT TAAAGACTAT TCTATGTCAA CTATAACATT 60
TAATTTGGGG ATTTCTGTCC CTTATAATGT CTACCTCATT TTGGATGGAA TCCTTGAGGC 120
CTGGTTTATT TTCCTTTNCC TTNCTACACA TCGCTGCTCA GAGTGATGAA TGGAGTTGTG 180
TTTTGAATAA AATATCTATG CATCCNTTGT TGAGCAAA 218

SEQ ID NO:6174

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07334

SEQUENCE DESCRIPTION:

GATCATGTTT TAACTAACTT CATTTTGTTG CTGAATCATA ATNNATGCTC TAATGACCTT 60
TTCTTTCCCTA TCCCAACCCT GTGTAATCTG CTCTATTTAG GGCTAATTGT TCCTTGCTT 120
GTATGTATGT AATGTGTCCT NGTNTTCTTC CTCCTATTTN NTNCTCATAA AACTCCATCC 180
NNTTTN 186

SEQ ID NO:6175

01806

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07335

SEQUENCE DESCRIPTION:

GATCCATTCA ACTTGTGTGT ATCAGTAGTT AATTNCTTTG TATTGGTCAG CATTCCATTA 60
TTTGGAATTT ATACAGTATG TTTATCCATT CACCTGTTGA AGGACATTGT TTCCAATGCT 120
TATTACTAAT AAAGCTGTTA TGAACATTCA AA 152

SEQ ID NO:6176

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07336

SEQUENCE DESCRIPTION:

GATCTGTATT TAATGAGGAG GAGCCGAGGC CCCAGCTTCA TCCAGCTTCA ACCAATGCCT 60
GGACCTGTCC ACCTGANAGG CCCCTGGGGC TCCCCAGCTG CTGGCCAGAC CCTGGCGCTG 120
CCACAGTCCT GGCAGTCCC AAGGCCATAC CTGNCTAGCC CTTTGGNTCC ATCCTGTGGA 180
TGCCCACTCA CCCCTNAGAC TCCTNCTGNC CATGCTGTGG NCGGACTTGT AAGCAN 236

SEQ ID NO:6177

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07337

SEQUENCE DESCRIPTION:

GATCATGCCT GTGTTTACCC TCTAAGCTGA AGCTGCTCAT CAACGGTGAG ATGGCAAAAA 60
GGTGGGTCCA GAAGAGGGGA AAAGAAGGGA GTCTGTGAAA ACAAATGCT GAAGANTCTG 120
CATCAAATAA ACCCTTCCTT CCTTCAA 148

SEQ ID NO:6178

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07338

SEQUENCE DESCRIPTION:

GATCTCCTTA TTGACCACAG ATTATTCCTC TGTTTCAGCAC TCCTTATTCT TATCCCTGTT 60
ACAATTCCTTA TTATGGTGCA CAAGCTCCAT AAATATTTAT AAAACTGATA TTAATTGANT 120
AAAAATATTGT CTAGAGGTCT CAGTCATTCT TCAAA 155

SEQ ID NO:6179

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07339

01807

SEQUENCE DESCRIPTION:

GATCATCTAG ACATAATTNC TGAAGATGAA CTTTGGACC AACTTCTAAG TCACACAGCA 60
 TCATTATCAG ATTTATTACA CAACGNCTTT TTNGTTTNA CTCTATTTCT GAGGAAAAAG 120
 CCTTCCCGAA ATCCGTAATG ANTTTNTCCA TGGTAACCCC TCTCCTGTTT TNACACAGNA 180
 AAGTTTCTCT NGACTGTN 198

SEQ ID NO:6180

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07340

SEQUENCE DESCRIPTION:

GATCGCTGGT TTCCTCTGCA GCGCGAGGGC TCCGGCGACC AGAGGATTCT NCCCGGAAGG 60
 CATTCTGCC GCGCTCCNG GGGCACCCCT CAATTGTGTA CTACGTCCTT GTTTAGTGTG 120
 TATCCGTGCC CACGTAGATG ATGTCTGTAA CGNAGTTTGT TTTGAAATAT GAGNATATGC 180
 GGCTTAAA 188

SEQ ID NO:6181

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07341

SEQUENCE DESCRIPTION:

GATCAGTTTA TTATTGATAC ATCACTCCAT TAATGTAAAG TCATAGGTCA TTATTGCATA 60
 TCAGTAATCT CTTGGACTTT GTTAAATATT TTNCTGTGGT AATATAGNGA AGAATTAAAG 120
 CAAGAANNTC TGAAA 135

SEQ ID NO:6182

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07342

SEQUENCE DESCRIPTION:

GATCAGTTTT CCNAGTCTTT GGGAAACGGG TTGTGTTTTT TNCCCTTTGC CGTGTTGGAT 60
 TTCCGGTCCC GGCTGACACC TCCCTTCGTG TGTGCGNCCC TCCCCACCCC TGCCTTTGTN 120
 TCGGTGCCCT GTGTCCGTTT TCTNATGTGG GGATGTTTGT GCTGCAGACA AAAAGAACAA 180
 NAAAAANTTT TTAAATACCA CAAAGATGGN ANAAAANGAC AAAANN 226

SEQ ID NO:6183

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07343

SEQUENCE DESCRIPTION:

GATCGTCACA TGCCGGGGAG CAATGTGGAT GGCCTGGGGA CTCCTGGGTT TTCTCCCTCC 60

CGACTCCCTA ATAAACCCCG TGAACCTTGG AGCCAAA

97

SEQ ID NO:6184

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07344

SEQUENCE DESCRIPTION:

GATCACCTN AGTNCTNAGC AGGGACTAGG CTTGCAGGTA ANATAATGGG CCAGGGCACC 60
CAGTCCAGAA GGAGCAATGG CACCTGGGCA GTGCCAGGCC TTAAAGCCCG CTGCTCCTTT 120
NCGGTAGAGG AGAGGCCCAT CACTGGTGTG GTGGGGTGGG CTCTCCCTTA GGCTTGGGCA 180
AGGCAGCCAC CTGCCCTTNC TCTCCCTTAG TGTTCCTGG CCTCCCTGCC ATCAGGTTGC 240
TGGGAGTGGA GATGGAGGGA TTATTGAGCA GAAAATNAGT TGGATGGAGN TAAACAGNTC 300
CCATCCCTGG GTAATGGATT N 321

SEQ ID NO:6185

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07345

SEQUENCE DESCRIPTION:

GATCAGCTTG GAAGCTTAAA GTCCAATCCT TACTTCGAGT TTGTTTTGAA AGCAAATTAT 60
GAATATNATG TTCAGGGACA AATATAACTT TTNCTAAAAA TGGCCATTGT TTATGAAATC 120
TGTATAAGTG TGTCTTATA CAAATTTNAG GCCATAAACA AGTGTAAAGT TGTACAATTT 180
CATAACATGT ATAGCTGAGT TTTTATACTT TATATGTAGG AAGCTAATAT AAAATAGTTA 240
TGTAAGTGTG ATTTTGGTTT TCAGTTATGT GACTTGTTTT TNCCACCNGA AA 292

SEQ ID NO:6186

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07346

SEQUENCE DESCRIPTION:

GATCCATAAC AGAGATNCAN AGAGGCACCG TGGAGTTCCA GGGTCATCGG TCAGCGAGGA 60
ACAAGGAGGG AAAGGTGTCT TCCTGCCCTTGATGCTCAA CTAAGCATCT GTTCCCTAGA 120
AATACATGTG TCCAGGNGN NTCCATGGGC TTTNN 155

SEQ ID NO:6187

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07348

SEQUENCE DESCRIPTION:

GATCTTNAGT TGTTTTAATT TTTTTTTCT GCATCTGAAT CTGCATGATT TCCAAACCTT 60
GTACCATCTG AATTTTGCAT TTNAGCACTT GCACTATTAC TCAGCAGCAG TAACATGGTA 120

01809

ACACTTAAAA TGGTACTCGG GGACCTCCAA AGACTAAACT GNCANGCCTT CAAGGNGCCC 180
 AGGGGTACGT TANCTTGTCA ACGGCATGGT TTAATCCCTT CTTTACACTT GTGTAAATTT 240
 CAGTTACTGG TCATAGNNGG CTTTCAATGT TGC GTGGCCT NTTATTANCN TGTTTATGGG 300
 N 301

SEQ ID NO:6188

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07349

SEQUENCE DESCRIPTION:

GATCTTTATC AATATTCTGG ATTAGACAAC AAATNACCTT TCTGGGTGTT TCTTGTAAC 60
 TATACTCCTG TTTGAATGTT AAACCTTGT GCTAAAGTTT AATTTTAAGA TGTTTGAATG 120
 TNCAGTTTAT GTATTTGANC TACAATAAAC CAACCCTTTT NATATATCTG TNTNGTATAT 180
 GATTATNGTN ACTTAATTNT NAN 203

SEQ ID NO:6189

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07350

SEQUENCE DESCRIPTION:

GATCAAAGCA GGTGGGGCTT TGGGATGTGA AGTGGGTCTT NACGCGGGGC CCCACAGACC 60
 TGTCTCCGCG TGANTGCCTG CAGGCCCTG CGTCATTCCT CAGCTGCGTG CGAGGCCTCT 120
 GGCTTGGAGA GCCTCCCCGC TGTGCACAGT TCTCTCTTG CCAGGGCAGG GCTTGGGGCA 180
 GCACCAGGCT GGGGCAGAGG AGGAAAGCAA GAGGACAGAC CTCCAGAAGA GCAGCGGAGG 240
 GCGGGTGAGG ATTTCCCAT ATACCAGTGT GTGTTTCATCT ACCCATGAGG AATAAAACCA 300
 TGCAGCAGCA TGCAAA 316

SEQ ID NO:6190

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07351

SEQUENCE DESCRIPTION:

GATCCCCAGN ACTGCAGCCG AGCCCCGGGC TTCCTTTCTT ACCATTCTGT ATGCTTCCAA 60
 GGTGTGACCA TTCAAATAA CNNTATTATT AAGATTATTA ATAAAGATT CTTTCTTCAA 120
 ACCAGGAAA 129

SEQ ID NO:6191

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07352

SEQUENCE DESCRIPTION:

GATCAGAATC AGAAAACAGG TAAACCTCAC TCACACATTT GGAATCATTG GAACAAAAAT 60
 CTAGGCCAAA ATACTGAAAA GCCTATGTGT TTTTAAATT GGAAGTATAT GTAAGGTTAA 120
 TGCATTTAGT GAACGTGACT AACAAAGACT AATGTGCACA TTAACAGNTG TNCTTTTAA 180
 GGTTTTATGG GAGGCTGTGC ATTGCTCAA AGCTGTTGGG AACGCCTTCT GACCAGTTGC 240
 CTCAGAAGT AGTTTGNCT GCTCANTNAA AANCCAGTGN NTTACTC NN GGN 293

SEQ ID NO:6192

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07353

SEQUENCE DESCRIPTION:

GATCTGCATG TGTGACACTG ATTCTTTGGA AATAAAGAGT GGAAGCTGCA AA 52

SEQ ID NO:6193

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07354

SEQUENCE DESCRIPTION:

GATCTAAATT TAAAAATAG GAATGAATCT NTTAATTGCA GCTTGTGGAG AGTATAAAAC 60
 ATTTTGAGCA CAATATGCAG CACATAACTT TTCAGATTGT GTTTGCATAG AAAAGGTTAA 120
 AATCAATTCT TTCAGTTACT GTATTGTTCA TTTCTTGTA AGGTCTTCCT ACATTGAGA 180
 CGAGACCCTT TAACATAGGC TGCCTTAGTA ACAAATAAAA ACAGATGTGT CATAAA 236

SEQ ID NO:6194

LENGTH:282

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07355

SEQUENCE DESCRIPTION:

GATCTAGAGG GNGGATTTC AGCCAGGGCT GCTAGACGGA GGCCTACTCT TCCATCTTTC 60
 CTGATGGCAG GATGGCCTGG CCAGGGCCTG GAAGACAGAG ACCTCCTGCC TCCGCCTCAG 120
 TAAGACGACA AGGAAAGGCA AATGCCCAAG GGAAAGAAAA GGAAGGCTCT TCTCCCCAGA 180
 GTTCCCCATG CAGACATGAG TGCCTGCTCA GTTCAGANTC ACTCCGAGA ACTCATCCCT 240
 AATGCTGCAG ATTTGGGCTG GAACAGATTC AACTGTCTG TN 282

SEQ ID NO:6195

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07356

SEQUENCE DESCRIPTION:

GATCTTCATC TCTTGTGTC TCCACTTGTA TTCTCTTTC AGTAACTGGA TTAATGCTTT 60
 GAGCCCCAAA TGAGATATAT TTNTAATTAC TGTAATTAC ATGTTGTTG GCTGGGAATA 120

CAATACAATA AACTTTATTT TGCATAATGC ATTTCAAA

158

SEQ ID NO:6196

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07357

SEQUENCE DESCRIPTION:

GATCTGGATT ACTATGTAAA TTCACAGNAG TACCGCTAAT ATAATTTTGT TTGCNTGTAT 60
TANCATCATC TGGTCTGNAA ATGTGGGTTT TTATTTGGCA CATTTANATA AAN 113

SEQ ID NO:6197

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07358

SEQUENCE DESCRIPTION:

GATCTGGAGC CACAGTCTGT NTATCTTCCA GTTCATCTCA GTCCTCGAGA AAGGCCCTNT 60
AAATATGTAA CTTTCCCAT TNCCTTTAAC CATGGGTTGT GTGAGCCAGA AAGAGCTTTG 120
AGAAAGATGG CTGCTTCCAC CAGGGNGGAG GCTTCTNGGT CTGCATGATG ATGGGGCCCG 180
TTTCTGGCCA NAGGGTGGCT CTGGGAGCAG TTGTNCTGCG GGCTTGCTGG GGGCGAACTC 240
TAACTGTTGC AGAAACAGNG CTTNATGGCT TGCTNNGGGT ACTTAGCTGG AATATTTTAA 300
AGTGTCAGNT AAATGTGATN TNN 323

SEQ ID NO:6198

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07359

SEQUENCE DESCRIPTION:

GATCTGTATG TACTTTTAGT TGTATTAATA AAGTGACAGT GAGTGTCAAA 50

SEQ ID NO:6199

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07360

SEQUENCE DESCRIPTION:

GATACCCAG TCTTAAGGTT TCAAAAAC TC TTTGACATTA GATTTCACAA CTGCACAATT 60
GANCTTATTG GCCTGTAAC TATTNCTAA ATGCTCAGTG CTATTTATAT ACTACAGTAN 120
TTNCCTGT TA AGNNGGCAGT TGTAAGNN 149

SEQ ID NO:6200

LENGTH:329

TYPE:nucleic acid

01812

TOPOLOGY:linear

CLONE:HUMGS07361

SEQUENCE DESCRIPTION:

GATCGGACTG GAACTGTTTCG GCTGCNACCA GAAATTNATT TTCCTGAGTA AATTGCCGAG 60
AATTAAGAAT GAAGAGGGCC ATTTGCATCT CCTTAAATTA TTCAGTTACC TGCTTTATTG 120
CTCCATGTGG AAAACTTAAA ATTGTAAAGT TGTGCATTAC TGTATTTNAN CTTGTTGCTT 180
AGTTTCTNCA TGTTTATTTN CAGTAATGGC TGANAGTGTT AACTGTNCCA TACTTTTNGC 240
ACAATGTNCT GCATAAGGTT ACCTGTGTAC AGAGTTTAC TTTAGNTTAN CTAAATATT 300
GCCTGGGTTT AGTNTTNATT TCCATTNTN 329

SEQ ID NO:6201

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07362

SEQUENCE DESCRIPTION:

GATCTAGGAT GTGGNTGTGG AGTACTTAGC ATCGGAACTG CAATNTNAGG AGCAGGGTTG 60
TGTGTTGGAT TTAACATAGA TGAAGACGCA TTGGAAATAT TTAATAGGAN TNCAGAAGAG 120
TTTGANTTAA CAAATATTGN CATGGTTCAN 150

SEQ ID NO:6202

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07363

SEQUENCE DESCRIPTION:

GATCCAGGCG CCTGGGCAGA GCACCTGCTG TCTGCCCTGC ACTTTGAAGG GTTGTCGTGG 60
GGATTGAAAT NAACCAACTG CCGGCTGAGC GGAGGCTCCC TGGGAGTNAC AAGTTCCGTA 120
TTAAATGCT TTCAGTGUNA AA 142

SEQ ID NO:6203

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07364

SEQUENCE DESCRIPTION:

GATCTATAAA ATTTTCAGTTT TAAAAAATGT GTTAAGGCTT TGTTTTTGGC CTAACAGGTG 60
GTCTATAAAG AAGNAAGTTG TATGAGGTAA TGAGAAGGCT GTGTATCCTG ATGTTGTCGA 120
GGAGTGTCT CTATACCTTC ATTAGAAATA ATTGTNTTTT TACTGCCTTC TAGTCTTCTG 180
TTTCCTTACT AATATNCTCT CTTGTNTTAT TACAGAAAGT GGNGTATTGC AATATCCTAC 240
TATAATTGTN TTGCNCTCTT TGTGTTNATC CCAGTNTNNG TNAGTNTANG CTTN 294

SEQ ID NO:6204

LENGTH:306

TYPE:nucleic acid

01813

TOPOLOGY:linear

CLONE:HUMGS07365

SEQUENCE DESCRIPTION:

GATCCCAGCC CGGCCTTTGT GGGACTAAGG TGGCGCTGAG TGGGAGAGCA GCAGGCGATG 60
CGCGAAAGGC GGGACTTGGA GGTTCCTGGAT GTTCCTGTGG ATAACCTCAA GGAGCACGGN 120
ACCTGGGACA TGACTGCCCC CAGCATTCCCT TCTGGCGGCA GACAGNGTTT GTNAGTTCGC 180
CAACATCCTG CTTTCATGNG AACAGTTTGC TGTTTGCTNA CAGAGCCTCC AGTNGTATAC 240
TGAGTTGGTC ACGACCNTNA TTNCTTCGNN CCTACAAACA TNTCCACTT TTCGNTTNTN 300
TGGTN 306

SEQ ID NO:6205

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07366

SEQUENCE DESCRIPTION:

GATCTTCAGT AAATATTTTG AAATGAATTC ATTTATGGAA GAATCAAANC TAGGTCAGAT 60
TGTCCAAACC AGACTAAGAA ACTGCATAGG GTNTTTTATG AGGTNTTTAA TGAATCATCA 120
GCNCCATTAT ANCTGANATT NCTACN 146

SEQ ID NO:6206

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07367

SEQUENCE DESCRIPTION:

GATCTCACTG CCCAGGCTGG TCTTGAATC CTGGCCTCAA GCACTCCTCC TGCCTCACCC 60
TCCCAAGCG CTGAGATATA GACCTGAGCC ACAGCGCCTT GCCAGTTGTT TTATGTTCTT 120
TATCCTTTTA CCTGCTTGCC TTCTGTAACC TGGGTTGCAT TAAATTTACT CCTACTNGTG 180
AGTAAATGTG AACCATAGCA ATAAATTTAG TCTATCCCCA GAACCTTCAG TAGCAAGGAC 240
CNATATTNCT ACGGTATTTG TNTGTGTCCA NANANAAATA AAATTACCTT NAAAAANN 298

SEQ ID NO:6207

LENGTH:28

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07368

SEQUENCE DESCRIPTION:

GATCATTAAG GATAAACATA TTTTAA 28

SEQ ID NO:6208

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07369

SEQUENCE DESCRIPTION:

GATCCTGTTG GCAANGGGAA TGTAGAGCTT CCAGGGTGCA TTGCCCACTG TTCTCATTGC 60
 ATCCCAGTCC TCCAAGTCAG TCTAGCCTTA CTGTACACTT GACAAGTGCT TACTCAGCAA 120
 GTCCCAGACC CACGNCCTNT TATCTCCNAA GACTGGNTTT GGCCATGNCC TTCCTCATCA 180
 GGCCTATGCG CANNANTATN TAGGN 205

SEQ ID NO:6209

LENGTH:302

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07370

SEQUENCE DESCRIPTION:

GATCCATTTA ATATGTTATC CCCACTAATT AATTTTCGTA TATNATTTCC AATATTTGGA 60
 AAGCTCTTTA TAGCCATTTG GTATTTCCCTA TTACCCACCT CCTATTTTAA ATATTTATCA 120
 GTCTAAACTT GTGCAGTGTA GTAAACATGC AAGTTGTTAT GCTTGAGCTG TATTACCATA 180
 AGTNGCNTTT TANGTAAACT GGTGNNTTTG GGCCATAGAT GTTTTGTCTT TTTGTTTGAT 240
 TTTNTNTTNC AGGCTAACTG TTNGNGGTAT ACATNTATTT NTCTGTTGTA CAGATTTGAA 300
 NN 302

SEQ ID NO:6210

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07371

SEQUENCE DESCRIPTION:

GATCCCCCAC ACCAGCGCCC AAGAAAGGAC CAGCGTTGCA CAGCCCGGTA GAAAGGGTTT 60
 ATTTATGCGC AACGGTTCAC ACAAGCCTTC CTGAAATTCC ACTTTACAGT AAATAAAGCT 120
 GTGCGTTTCC CCTTCCCATG CACAACTGCG TATCAATCTA CAACTGTCAT TTAAGTGTGA 180
 AAAAATAGNG CGTCTCCCCT TTTGTCATCG TTCTGGTAAC ATTTGGCGTA GCATCTGACA 240
 GCACGGAGNT GCTCACTCCT GGACCGGTTA TTTGGTTAAA ACCCAAATG TTAGGTCGGA 300
 N 301

SEQ ID NO:6211

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07372

SEQUENCE DESCRIPTION:

GATCCATTTA ACTATTCATC AGAGGTGCTG TAATTTTAAA TTGTCTCTTG TCTCCTTCAG 60
 TTAATTTTCA GAATTAAAAA CATACCATGG GNAAAAAAAA CNCNAANCAN N 111

SEQ ID NO:6212

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07373

SEQUENCE DESCRIPTION:

GATCCTGGAA ATNAGATGGG CCTTACTCTG TCGACTAAAT GAATAGCTAT TTTCTTGTC 60
TTTTTTAAAG TGCAACTCTT GCTTCATGCT GCTTAAGTTA CCAGATGAAT GCTGNGAAAT 120
AAGTAATCAC AGNCATTTTA ATACCATTTC ATTGCTGTTT TACGCGTGTT CATTACTTAA 180
CAAAAAATTA TCTTTTAGCT TTAAA 206

SEQ ID NO:6213

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07374

SEQUENCE DESCRIPTION:

GATCTAGCCT GCCCTGCCTG CCTGCCCTGG GCGATGAGGT ACGGTGGGGA AGGTGCCTAT 60
TTTAGAGAAC TTTGTCACAG TATTAAAGTT CCCAGAACAA A 101

SEQ ID NO:6214

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07375

SEQUENCE DESCRIPTION:

GATCTAGAAT GTAATAAAT TGCTTATAAA TGTCAGAGCA TTTTNNAAAG GTACAGTATA 60
TGGGGATTGT NTCGTTTTTC CTAGCAGGGG AACCTTAGTT AATANTAAAA TACTACTTAT 120
TTGAGTTACT GNTACAGNTT CATTAAAGGC TTGTGTGCAA ATGTGGTCTC ANTCTTTTTT 180
CCCTCCATGA TTTTCCTATG TGCTTCCTCT GGCATTCACT GNGGTTTTGG TAAANTAANT 240
TGCCNNTTAA NN 252

SEQ ID NO:6215

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07376

SEQUENCE DESCRIPTION:

GATCAGGAGT ACCTCCCTCA AGAGTCGAGG GNGGTAGATT TCTACACGCA GAGGAGGTGC 60
TGACTCCTCA GGGCACGCCA GCAGTNGNNT GTTGCTTTN TAAGGGAGGG CCACTAAGAA 120
AGTTAGTGGA TTGCAAAGTT GGTTCCTGG TGGNAGTTAG ANCAGACCAA CATTTTATGC 180
CATAACTTTA NGAGTTCCAT AGGTGGCGGC GCAGTTCTN CGNATCAATG TNTAACTTTG 240
NGGGGGGTGT TCATTTN 257

SEQ ID NO:6216

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07377

SEQUENCE DESCRIPTION:

GATCAGACAT AACTTAGCA TCTTAATGGA AGAAAAATGA GGGGAACCTC AATTATGATT 60
 TATTAAAGAC AATTTCTATT ACACCCTCCT TTATGACAAG TGACATTTTA GATGTAAAAG 120
 TAAANCTTT ACCATGCCTT TTTTTTTTT NGTGGGCCTA CCTTNGGGGC NTNAANCCCN 180
 GGGGNNCCN 189

SEQ ID NO:6217

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07378

SEQUENCE DESCRIPTION:

GATCTCGCAA TGTCTGCCTT AATATTTTAC AATTAAACCT TTCATATTTA TTATAATTTG 60
 GTAATATTCA TTAATTTTCC TGTCTTTTAA AAGTCTTGAT AGATTTGTCA AAGTATATGT 120
 NCTTTTCCCT ATGCTGGTTT AGAAGTNCGA NATATCACTT CTAATAGTAA TTATGCTCAA 180
 NTAGGTACAC ATATACATAC ATNTTCTCT CNCNCTTTAT ATACTTNTGT GCAATTGGCA 240
 CTTTGTGACGT ATGTCATANN NNTGTCATNC CN 272

SEQ ID NO:6218

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07379

SEQUENCE DESCRIPTION:

GATCCTCGGC CTCCCAAGT GCTGGGATTA TAGGCATGAG CCACCGTGCC CAGNCTAATT 60
 TCTAATTAAT TAAA 74

SEQ ID NO:6219

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07380

SEQUENCE DESCRIPTION:

GATCTCGTCT GCTCACCTTA GCTTTCTGCC TTGGCAGCAC GGGCTGCGGA AGAAAGCACG 60
 CTGGGCCAGG AGGCAGGGGT GCCCAAGCCA CAGGGAGCCC CTGGGGAAGC CTGCTCCATT 120
 CTTCTGGTGA CCTTGGCGCT CCTTCACTCA TCTCCCCTGC CCCCTCAGGA ACTGGTGGCC 180
 CAGCTTCCAC ACCNNCACCT CCCAGTCTCT AGNCTATCCA TCTGTCTGTG TATGGCCTGG 240
 AGTCACTNCT TCCTCANGCC CCCAGGGNAA NGTGTGCTCA AAATAAAAAAC CAGNGGNCTG 300
 AAA 303

SEQ ID NO:6220

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07381

SEQUENCE DESCRIPTION:

GATCCCCTTT CCCACATCCG TGCTGTGTCA TTGTTGCTCT GCTTCCTTTC AATGTGTCAG 60
 TGCCTGGGGG GAGGGGAGGA GCACCCCTC AGCCCCCTG AACCTGACCA AAAGCCATGG 120
 CTGTTGCTCC NNNCTTTGTA TGATGCAAAT GCTGAAATGT ACAAATCAA CCATGACAAC 180
 AANGAAAAAG GCCTGTACA GCAAA 205

SEQ ID NO:6221

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07382

SEQUENCE DESCRIPTION:

GATCATAAAA ATGAAGGAAA ATGCCCAAGC ATATCCCCAA CCCCTCACCC CACAACCACC 60
 ACCACCACAC ATAANCAAGT TGCTGACATA NNAGGGGGAC CTTTTTNANN 110

SEQ ID NO:6222

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07383

SEQUENCE DESCRIPTION:

GATCGCATCT CATTGTAAAC TCTTTACTGA TATGTTTGTA AATACAGAAG TGAAATGTGG 60
 ACATAAAATA GTTACGCTAT TTGGTTAATG GTACTAGACA ACATGTAATT AATGACATTC 120
 AAAAATTTAT GGCTAGTGAT ATATATAANG TAAAATTTTC TTTGCAGTAA AATATGCCCT 180
 TNATTATNGN CGGGNGGCTA TANGGNCCA ACAGTTTGTA TGAAANTAGC TCCNAATCAT 240
 ATCTNTNN 248

SEQ ID NO:6223

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07384

SEQUENCE DESCRIPTION:

GATCCCTTTA CACTCTTCAA AAGTGNGAAC CCCAAAGAGT TTTCATGTAT GTGGGTAAA 60
 TCTATTGATA TTTTCTGTGA GAATTTAAAA ATTATGTTAA AANAATAAGA NGAATGACTA 120
 TTTTNCAAAA CAANANATGA GNTGN 145

SEQ ID NO:6224

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07385

SEQUENCE DESCRIPTION:

GATCTGCTTG GTGAAGAGTT CAGGAAAGTA TATCAACAAA GGNGTGAANT TTGTGAAGAG 60
 AAATNNTATC ATCAAAATTG GGTAAAGCAT AGNTTTTTTG TATGTTACCA CTAGATGTCA 120

GCATANCTN

129

SEQ ID NO:6225

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07386

SEQUENCE DESCRIPTION:

GATCAGAAAA CATTGATTTA TATTTTAAAA TAGGATATTG GAGCCATTGT CTTAGATAAT 60
TTTCAAGGCA AGANCAAGCC TGCAATAAAT ANTGAGNCTT TGACATTCCT TGGCGCGGAC 120
GATGTCTCCT GCCCTANTAT GACTGTCACT CAGCAATTTC AATTTTATGN NTACTTGATT 180
TAAANCGGGA GGCTANACTT GNTCTGAAAN GN 212

SEQ ID NO:6226

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07387

SEQUENCE DESCRIPTION:

GATCTTACTG AAGATGATGT TCCAGCAGCA GCGACTTAGC CCCAGGAGCC CAGTTTCAAT 60
GGCCTTGCTG TGTGGTGTTT CAAGTGCATT TAAAATGTGT GACACAGNAA CGGCACACTC 120
TTNCACATGC TTTTGNAGTA TTATAANNCA CTTTATTACA AATTTGTCTT NGCTATTAGC 180
AAATANAAC TATTATCATT CTTTATTAAC CCACCTNGGC CTTTNNAAAN CCTCN 235

SEQ ID NO:6227

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07388

SEQUENCE DESCRIPTION:

GATCTCACTC TTNCCCAAGC TGGAGTGCCG TGGCAAACCTC ACAGCTCACT GCAGCCTTGA 60
CCTCCTAGGC TCAAGCAATC CTCCTACCTC AGCCTCCCAA GTTGCTGGGC CTGTAGGTGG 120
ACACCANCAAT GCCCTGTTGA TTTTNAATTT TTTTATATAG AGTTGAGGTC TCGGTATGTT 180
GCCAACCTAG TCTCAAACCTC CTNGGCTCAC GGCTGTAATC CCCAGCTCTC AGGGAGGNTA 240
AGCGGCGGNN GGNTAGCTTA AGCCNAGGAN TNCGAAGNCC TGNCTTNGGN 290

SEQ ID NO:6228

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07389

SEQUENCE DESCRIPTION:

GATCCATGGG GCCCAGGCT AGAGGGCATC CGAGGGGCTG GGCCTTGGCC ACAGCCTCTT 60
GGATGATGTC CTTGCTCCAC CACGCAGGCC CTTGCTTCTC CCATCAACGA GTCTTGGCCC 120
AGGGGACACT GACCCTCCCN CAGGGAGGAG AGAGGAGTTC CTTNCCTTTA AACGAGGGCT 180

01819

TCCACGACCT CTAAGGGGTG GCGNGGAAGG GAGGAGGATG AGAAGATGNA GATTAAATAA 240
AGGTATGTN 249

SEQ ID NO:6229

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07390

SEQUENCE DESCRIPTION:

GATCTATCTC AGGGCTTGTT GTAAGAATGA AATGAAGTAT AAAGCCATGT AGAGCTTGTA 60
GAATATGCCT GGCACCTTGT AAGACCTTAA TANNTGTAA CTATCTAANC ACANAACAA 120
CCNCN 125

SEQ ID NO:6230

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07391

SEQUENCE DESCRIPTION:

GATCCTAGTG CTCCTGTCTG GTCAGGGCCT ATCTTTATGT GTTCGTAAA CTTTAAACAA 60
TGAGNATTAA A 71

SEQ ID NO:6231

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07392

SEQUENCE DESCRIPTION:

GATCTGAAAA GTTATTAAGT TCAACTCCAC AGAGGTTCTT AGGAGAATGT TAACAGTCCA 60
GACCTTTTTC ACTACATCAA CCACGGATGA TTGGCATATA AAATCCTACT TAACCTTTAC 120
ATAACTGCAA TACCAGGAAA CAAATATGTC AATAAAAGGA AACATCATTC AATTTTGGGA 180
AA 182

SEQ ID NO:6232

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07393

SEQUENCE DESCRIPTION:

GATCCAAAAA ACCATTCAGG CCAAGTNACC CTGACATGTG ACATCTACCT CCCGACCTAC 60
CACCCCACTG GCTGGTTCCA GAACGTCTCT CACCTAGACC TTGCCTCCCC TCCTCTCCTG 120
CCCAGCTCTG ACCCTGATGN TTAATAAACG CAGCGACGTG AGGGTCCTGC TTATCCCTGG 180
TNNGGNNNCA GNTCNATCCT TGCATCANTG GGGAGGACGT GATGNGTGAG GAN 233

SEQ ID NO:6233

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07394

SEQUENCE DESCRIPTION:

GATCAGCCTG TGCCACACTT CGCTCTTGAG GAGCTCAACG GTCTGGCAGG GCAGCAGGAG 60
GCTTTCTGGG CTCTGGNCTC CACGGATGCG TGGGCAGNGG AATGTGGGCT ATGTAGTCAT 120
AATAANTTAG GNCACAGAAA AAAAAAANAA AAAANNCN 158

SEQ ID NO:6234

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07395

SEQUENCE DESCRIPTION:

GATCTCTTTT CATTTGTCAA CCTTTTCAGT AAAGCCCTCT GTTACATCAA A 51

SEQ ID NO:6235

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07396

SEQUENCE DESCRIPTION:

GATCAGCGAG AAGGACAAGA AGAANNTTCT GGACAAGTGT CAAGAGGTCA TCTCGTGGCT 60
GGACGCCAAC ACCTTGCCG NGAGGACGA GTTTACGCAC AAGAGGAAGG AGCTGGAGCA 120
GGTGTGTAAC CCCATCATCA GCGGACTGTA CCAGGGTGCC GNTGGTCCCG GGCCTGGCGG 180
CTTCGGGGCT CAGGGTCCCA AGGGNNGGTC TGGGTCAGNC CCTNCCATTG AAGGAGGTGG 240
NTTAGGGGNC TTTGTTCTTT TNGTATGTTT GTCTTTGNGN 280

SEQ ID NO:6236

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07397

SEQUENCE DESCRIPTION:

GATCTAAATA CTGTGTTAAA ATATAGAAAA ACGGAGACTC TNATAAGGTT TTTNACCTCT 60
ACACTTGAAA GTGAGCTCTT ACAAGAACT AATCAGTGTT TCGTTATTCC ATATCAGTGG 120
CTTTTACTGT CAACGNTTGT GTAAGCTNAC TTATCTGGCA AACTTTTNCN TTCCAGAANT 180
ACTATCTATN TTACTNTNN 199

SEQ ID NO:6237

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07398

SEQUENCE DESCRIPTION:

GATCCACCCA CCTCGGCCTC CCAGAGTGCT GGAATTACAG NCGTGAGCAC CGCGCCTGGC 60
 CAAGNAAAAA TTATTAGAAC AAGTGAGGCA TCACACTCCT CTGCCATTCA GTCAAAAGTA 120
 NGCACCAATT TATTAACACA AACATTACAT AATACATGAT ACAGGCGCAA TCTCGCTACT 180
 GCTAGCACTA CGNNAATGTT GTTCTTGAC TATAACATTA AACTGTATAA TACTGACAGT 240
 GAAATGCACC NATANNGGNN ACCTGTCATC ACNNGGNNN 279

SEQ ID NO:6238

LENGTH:21

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07399

SEQUENCE DESCRIPTION:

GATCCAAAAA CTAATTCAA A 21

SEQ ID NO:6239

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07400

SEQUENCE DESCRIPTION:

GATCCAAGTA CTCTCTCTCC TAAAGACACC ACCTTCCTGC CAGCTGTTTG CCCTTAGGCC 60
 AGTACACAGA ATTAAAGTGG GGGAGATGGC AGACGCTTTC TGGGACCTGC CCAAGATATG 120
 TATTCTCTGA CACTCTTATT TGGTCATAAA ACAATAAATG GTGTCAATTT CAAA 174

SEQ ID NO:6240

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07401

SEQUENCE DESCRIPTION:

GATCTTGAAG AGACCGCTGG CAGCACCAGT ATTCCCAAGA GGAAGAAGTC TACACCCAAG 60
 GAGGAAACAG TTAATGACCC TGAGGAAACA GGCCACAGAN GTGGCTCCAA GAAAAAGAGG 120
 AAATTCTCCA AAGAGGAGCC GGTGAGCAGT GGGCCTGAAG CGGCGGTTGG CAAGAGCANC 180
 TCCAAGAAGA TGCAANAGTT CCATAAAGCA TCCCNAGGAN GNTTAAGAAT GCAAATGGAC 240
 CATTCTCTTG GNNGGTTNGG NCATACCCAT NAGCCCNAGG TGACATTTCC CNTN 294

SEQ ID NO:6241

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07402

SEQUENCE DESCRIPTION:

GATCTCGCCC TTACCCCGGG GTCTGGTGTA TGCTGTGCTT TCCTCAGCAG TATGGCTCTG 60
 ACATCTCTTA GATGTCCCAA CTTGAGCTGT TGGGAGATGG TGATATTTTC AACCTACTT 120

CCTAAACATC TGTCTGGGGT TCCTTTAGTC TTGAATGTCT TATGCTCAAT TATTTGGTGT 180
TGAGCCTCTC TTCCACAAGC GCTCCTCCAT GTTTGGNTAG CAGTTGAAGN GGTGTGTGGG 240
TGGGCTNTTG GNGTGAGGA TGGAGTNTTA AGTGCCNACT NNCNNCTNNN ACCNN 295

SEQ ID NO:6242

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07403

SEQUENCE DESCRIPTION:

GATCTAATCC CTTCAAGGAA GTGATAACAC TGGGAGTGGT AACAAGAGGA GCAGGGAAGC 60
AAGGGCCAGC CCCTGGTTCT CCATCCCNAT GTGTTNGAGG GTGGGACCAG NTGGACCTGG 120
TCCAGGCCAG GCCTCATTC TCCCTGGNCCN GGCAGGGTCA GAGGGNGGAG GGGCNTGGTC 180
CAGGNATGGG TCCNTTCCAN N 201

SEQ ID NO:6243

LENGTH:26

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07404

SEQUENCE DESCRIPTION:

GATCTTGGCA GTTGATAAAA CGTAAA 26

SEQ ID NO:6244

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07405

SEQUENCE DESCRIPTION:

GATCGNTGCC TGGTTTGTCT TCTCTGTGTC CTGGAGCAAA GCCAGTTCCT AAAACTAAAA 60
CTCCATTCTA GTCTTGGGAA GAAAAGTTTC TACTCAGAAC TGGGGAAGGA GTGGAACCTA 120
TGA CTAGGCTG TCTCTGTCCC CTCAGCTCCC CGACATGCAT TACTCTCTG 180
CCGTGGGTCT GCAGTCGCTG CAACCTACCC TCTCTCTGCC TCAGCCTTAC ACCCAAGCAG 240
TAGGTCTGTG CTCTCCCTGT CTCTAGGTCG NTGAGAGAGG TGCTTTTNTT CATAAACCT 300
TTGGGGTTTG GGATTTCCTC AGAN 324

SEQ ID NO:6245

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07406

SEQUENCE DESCRIPTION:

GATCCATTCC GGC GCCTTCC TCTCCAGTC ACCCAGAGGG CCCCAACCCC GGCGGNCCTT 60
TCTTCTCAA ATGTCCTCGG CTCTATACCG TGNC TGGGTC TTTTNTCTNT CTCTCTGCCT 120
GGAAGATTCC TTCTTTNCCC TTTTGTCTTG CCCACTACTG TTTACCCTTC AAGTTTCAAG 180

GTCATGTCAC TGTCTNAGAG AGGTTTTTCCT GTGNTNGACC TGTTTTTNAT CAGGAAGGCT 240
TGCTNNTTTC CATNAN 256

SEQ ID NO:6246
LENGTH:37
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07407
SEQUENCE DESCRIPTION:
GATCATTA AAA CCTGGCTTGA GTCTCTGTTC TGGCAAA 37

SEQ ID NO:6247
LENGTH:152
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07408
SEQUENCE DESCRIPTION:
GATCAAGNTT GNTCTTCTGT GATATATGGG ATATNATGTT TTAAAGACCA TCTTGGAATA 60
CAATTAGAGA ACTTAGTATT TTGATGTACT AAGACCTATT TTAAGTTTAA TATTCTACTT 120
TGCAAAANCT TTAATTAANG ATGTTATTTA AA 152

SEQ ID NO:6248
LENGTH:213
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07409
SEQUENCE DESCRIPTION:
GATCCTGCAT TAAGAAATTC AAAAATCAGT TAATCATCGT TACATGTTGT AAAAGTTGGA 60
TACTGACAGT CTCTAATAGT TTATCATCCA ATNGCANGTA ACCTACAATT TTAGGCATAA 120
ACGTTGATGT GTATAANCAAT GNATACAACG CTANTGGCTG GTCACAGTGT TTTCNCAAAC 180
TACAGNTCAC ACCANGTNTT TCTCCTNTTC CTN 213

SEQ ID NO:6249
LENGTH:274
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07410
SEQUENCE DESCRIPTION:
GATCTCCTCT TAAGCGGAAA AGAGATTGAC CTTCTAGCAG AGGCAAAGAA TGGAGTCTTC 60
TGGGGGCAGC TGCAAAGCGT TCTCCCTAGG ACAGATGGAG CCTCCCTTTC CTCATCTACT 120
CTGTGGGTGG TTTCAAGGCC CACGAGTCAA CATNAGGAGT TGTGCTGGTG GTATGTGTGT 180
TGGAGGCTGG GCTGGCTGAT TCACAGTGAC GAGGATGTCA CTAATANCAN GTATTGCGAN 240
TGNTGATACC TAATAANAGN CTTTTTTTCC CAAA 274

SEQ ID NO:6250

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07411

SEQUENCE DESCRIPTION:

GATCACCATG CTTGAATGTC CTCTACTGCT GATTCTAACA TCCGTGTCAG TTTTGGACCG 60
GTTTCAGTAG ATGGATTTN CTCCNNGNNA TGGGCCATAC TTTCCTGCAT TCTTTGCATG 120
CCTCATAATC TTTGATTGGA TGCCAGACAT TGTAATTTT ACCTTGTTGG GTATTGGATA 180
TTTTTGTATT CCTATAAATA TNCTTGNGCT TTGAAA 216

SEQ ID NO:6251

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07412

SEQUENCE DESCRIPTION:

GATCTAATTT TGTATGTGGG AATCTTGCCT TGCCCTGATT TCCAGACCCA TAGGCAGGCT 60
TGCAGGCTGT AGCTGGGGAA GACCCACGC TTATNCTGGT GCCCTGAGCA AGCCCTCCTG 120
CTCCACTATT AGGCAGAAGC ACCTGTTCTG CCACAGGAGG CGCTGTCTTT TGCTGGCAGA 180
GCTCAGTTTC CCTTAAGGGG AAGTTCCTTA GGATTTAAGG CCTCATGACT ATCTCAAAAC 240
CCATGTTTGT TTGCCAATAA AGNAAATAAA TAAACTGTAA AAAANNAANN AACNACCANN 300
NAAAAAACAC NAACANCAN 319

SEQ ID NO:6252

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07413

SEQUENCE DESCRIPTION:

GATCTACTGT TTGCATGTAA GAGACCAGGN TATGTAATC TTATATTTTA AGTGATACA 60
TATTGTGTAT ATAACATATG GATATTAATA ATGGGGANTT GCACATTTAA A 111

SEQ ID NO:6253

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07414

SEQUENCE DESCRIPTION:

GATCCCAGGA ACTGTGGGCA CCCATTTNT GTGTCTCCCA GCCNATTTC ACTCCTAGTT 60
TGTCATGGNT ANTTTTTGT CTTCCCTGTG TGAGGGGNGC CATCAACN 108

SEQ ID NO:6254

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

01825

CLONE:HUMGS07415

SEQUENCE DESCRIPTION:

GATCACAACC ATCAGCATCA CGGCCACAGC AGCCAGTGTT GGGGCTGCTG GCATCCCCCA 60
GGCGGGTCTG GTCACCATGG TCATTGTGCT TACGTCGGTC GGCTTGCCCA CGGAAGACAT 120
CACGCTCATC ATTGCCGTGG ACTGGTTCCT TGACCGGCTT CGCACAATGA CCAACGTA 180
GGGGGACTCA ATTGGNGCGG CCGTCATNGA GCACTTGCTC CAGCGGGNGT GGAAGCTTCA 240
GGAAGCTGAG CTTACCCTAC ACAGNCTGGG GAAACCCNTA CAAGTCCCTT AATGGNACAG 300
GACGCAGGGG AGCATAN 317

SEQ ID NO:6255

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07416

SEQUENCE DESCRIPTION:

GATCGAGACC ATCCTGGCTA ACACGGTGCT GGCGGAGATA ACACTCCCTT GAAGCAGTGG 60
AGTACAATCA AACATCTTGG CTGCTCCTGA AACCNGGTCC CACGNATTTC AGTCCGGCTA 120
AGANCGAAGA GCTGGTAAAC CANTAANTTG GGTGGAGGCC GAGAGCTCGG GGCCGCGAGC 180
AAGCCTCCGA CGANNTGGTC CCCTGGACCN NCNGGTTN 218

SEQ ID NO:6256

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07417

SEQUENCE DESCRIPTION:

GATCTNACTC ACAGAGGGAA GAACTTATAA TTCTTCACAG GTCACATAGA AGCATGANAA 60
TTTGGGTTCA AGCAAGTAAA TTCTAAATCA GAATCCATAC ATAAAGTGTT TGCAATGTCC 120
AGTTATATCT CCATGATATT TNCTTTGTGG AAGTTGATTG TCCTTCCTTA CAATAAATTG 180
CTTGANTTGT CAAA 194

SEQ ID NO:6257

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07418

SEQUENCE DESCRIPTION:

GATCCTGTGT ATTTCCCTGA GTCTTCTAAC ATATGAAAAT TCATATCTAA ATCAACAAGT 60
GACTGTAATC TGGTACTATA AATACTAAAT AAACACTTCT TCATAACACT GTACCAATTC 120
AGCTTTTAAA TTTNATTACT TTGCTTTCCT GTCCTTTGCC AACTCTTAAC CTAGTTAATC 180
CTAGTNCTGT TGACATTGGA CCAGGCTCAG TAAATAANCG AATGGATTTC CAGCCTTTTT 240
TTCCCATCTG TNCCTGCTTT TANGTCCTCT GAATCTGCTT CTTTGCTTNC TGCTGCTTTA 300
ATTTTANCAG TGNTTTTNGT CAAAACATAG GNTNCAGGGN CTNNN 345

SEQ ID NO:6258

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07419

SEQUENCE DESCRIPTION:

GATCTGGGTT CTAGAGGGCA TGTGATGACT GTAAATGTTC ACTGGGTGGG TAGGGAGTGG 60
TATCCAGTGT TCAAGTGCAG AAATCTTTGG CTTNGCTACC AGTTCCATAT GATGAGAAAT 120
AAACGTTTCG TGAGGTTTGT TTTCATAAAA AGANNNNNAA AANNTCN 167

SEQ ID NO:6259

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07420

SEQUENCE DESCRIPTION:

GATCCACACT TTAAAGAAA TTCCATAAAT GTATATTTTG TATTATGTAT TATTCCTGG 60
TCCNAAGAAA ATATGTGAAT TCAGTTCTAA CTTNNGGANT GTACTGTTG TTTTCANGTT 120
CATTGNAAAN 130

SEQ ID NO:6260

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07421

SEQUENCE DESCRIPTION:

GATCCGAGAT GGCACCATTG TACTCCAGCC TGGGCAACAA GAGCGAACT CCGTCTCCAG 60
ACAAACAAAC AAANCAANAA CAAGTGTCCT TATNNGNATG GGTGTGTTN 110

SEQ ID NO:6261

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07422

SEQUENCE DESCRIPTION:

GATCTGGCTG TCTAGAGGGA TTCTACGACT GCGTGCTGCC GCCTCCCCAA GAGGCATTCA 60
GGTTATTGGA GAACTAATCT CATCTCAAGG GGCCAGNCAC CAAGTCCCA AGCCTACAGA 120
CCTCTTTCCG CCAGGCCCTG AAACCTGGCC CCGTGCCAGC AGGATGACAA GCCCCAGGGC 180
GNTCCTGATG AATATGGCTT GGAGATGNTG TACAANTTTT TATTNCCCTN TGGNTTTTGA 240
GGNATGAAAT GATTTGCACT TTGAAAACC TGTTAACCGT AGGCCNCTTN GGNCANTGAN 300
GNNTGGAAGN 310

SEQ ID NO:6262

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07423

SEQUENCE DESCRIPTION:

GATCCACTCG GNCAACCCAA CAGTTTTACC AACCACCCCG GGCTCGGAAC TAATAGGNAA 60
AGTAGACTCT TTGTGAAGAA ACGAGCCANT NNCTGGAACA CCCTGGTGGG AACCTGTTGA 120
CANGCCCTN 129

SEQ ID NO:6263

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07424

SEQUENCE DESCRIPTION:

GATCACTTGA ATGTTAGGNT TCATAGNACT ATACTAATCT TCTCACAAAA GGTCTATAAA 60
ATACAGTCGT TGAAAAAAT TTTGTATCAA ANTGGGGNGG CAAATTNGAA GCTTCTCCTT 120
AANCTGTATT GATACTGACT TGAATTCTTT TCTANAN 157

SEQ ID NO:6264

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07425

SEQUENCE DESCRIPTION:

GATCTCCTTC TTTAGCTCAA GGTGCTGCA ANTTGGAGCT GAGCTGTCAG TGGAACGNGT 60
CCTGGAAATN ATTAAGCAAG GCGTCGTTGC GCTGCCCAAN GACAGACTGA AGAAATTTC 120
AGANTTGAAA TTCAAATATG TGGAAGNGGA GCAGCCCGNG GNGTTTTTAT N 171

SEQ ID NO:6265

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07426

SEQUENCE DESCRIPTION:

GATCCTACAT TTACAGACAG TTTTGTGATA ACCCTTTGCA TTGCAGCACC TAGTACAATT 60
CCTTGAAAC AGCGTGGCTC AATAAATTTT TATTGAATGA ATAAATGTGG GCCCAGAAGC 120
GTGCTAGANG AGTGCCTTTC TGGGCTACTN AAAAAANNA AANACNAAN AANN 174

SEQ ID NO:6266

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07427

SEQUENCE DESCRIPTION:

GATCAAAGAC TCCCTGGAGC GAGAAAACAG TTAAGCCAG AAGCAGAATG GAAGAGCCAA 60
AAAGTACACA AAATGGACGC CATAANTTCT GAAATAAAAG TGTATGATGT GTTCTGAGTC 120
AAA 123

SEQ ID NO:6267

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07429

SEQUENCE DESCRIPTION:

GATCTGGGCC TCAAAATACC ATAGTAGCTG CTTGATAAAA TTCTAAAAAT ATCTGGTTCT 60
CTATTATGTA AACACTATTA CAGTCACCAG TGTGTGAAGA CTCTTGAGTC TGGTTCTCAT 120
ATCAGAGTCA TCATTTTCT TCCNGTGGAA TAAANTGCCT TGTGGNCTTC CAAA 174

SEQ ID NO:6268

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07430

SEQUENCE DESCRIPTION:

GATCTTTTCA CTGGCTGACT CTCCCATATC TGCAAGAGAT TCTGCAGGAA CTGGGTGTGC 60
ACACGGTGTG GTAGCCAGTT CAGGTACTGN ATATTTAGGA TTTGGTGNCG TTCACTGTAT 120
TGCTATATTT TTGTAGCTAA ATAAANCTCA ATAANTTGTT AAA 163

SEQ ID NO:6269

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07431

SEQUENCE DESCRIPTION:

GATCTCCAGT ACTTTGTACA ATGTATAGTA TATTAAATAC ATTTATGTGT AATTTTGTGT 60
GTATTTNTAT ATGGTATAAT TAAAATNATT ACATTTATGT GATTGTAATT CACAAAANGT 120
ACTACTTACT ATATNCTGTA GNGTGTGTTG TGAATGTNTT TACCNGTGTT TGAGCATTAT 180
GGNGTAGGGN TN 192

SEQ ID NO:6270

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07432

SEQUENCE DESCRIPTION:

GATCTTCTTT TGTAATGTTT TTCATGTTAC TGCCTAGGGC GGTGCTGAGC ACACAGCAAG 60
TTTAATAAAC TTGACTGAAT TCAAA 85

SEQ ID NO:6271

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07433

SEQUENCE DESCRIPTION:

GATCCTAGTG AGGGATTGAT GAATGTTCTA AAGAAAATTT ATGAAGATGG AGACGATGAT 60
ATGAAGCGAA CCATTAATAA AGCCTGGGTG GAATCAAGAG AGAAGCAAGC CAAAGGAGAC 120
ACGGAATTTT GAGACTTTAA AGTCGTTTGT GGAACGTGTA TGTGATGTGG AAATACTGAT 180
GTTTCCAGTA AGGGAATATT GGTGAGCTGC ATATATAAAT TTGACAGATA GCTATTTACA 240
TAGCCTTCTA AGTAAAGGCA ATGAATTCTC CATTCCTAC TGGN 284

SEQ ID NO:6272

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07434

SEQUENCE DESCRIPTION:

GATCAGTATT AACATCCAGG TTTTGATTGT TGTANTATGG TTACCTGGTA GATTACCTTT 60
GTATATAGGN AATAGACACT GGAATAGTAA GNGTAGTGG GTCAAGATGT CTGCAACTTA 120
TTGTTTCAGAA TCACTCACAA NTGGGNAATC TGATATAAGG NCAANTGGG AGCACTGTGG 180
CCTNTTTTTN CAACTTTTGT GTACATCTGN N 211

SEQ ID NO:6273

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07435

SEQUENCE DESCRIPTION:

GATCTCATGA AGTCTTCCTT GGCCCAACCA GGCAGATGCC CCGGGCTCCA GTGGGGGGAG 60
GGGTCTGGGG TCTGGTCCGG GTTCCCNAAAT TTCTCTTNN CCCANATCNC TATTTCTACG 120
CAGTGCGNAT AAAATTTGGA NTCGACTAAA ACCCTTGGTG CCCNGAAAAAN 170

SEQ ID NO:6274

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07436

SEQUENCE DESCRIPTION:

GATCTGCCCC CCTCGGCCTC CCAAAGTGCT GGGATTACAG ACGTGTGCCA CTGNGCTCGG 60
CCTCAGATTC CATATTTNAA CACCAGCTGA TTGAGAGAAG GGGAATNAGA AGAGCTGGAT 120
GAGTTTAAAT AACTTTNATT GTTCAGATTC CTGAACAGGN GTTGGGATAA TGCCCATCTT 180
TNCTTTCTTA TCCTTCCCCC CCTCACTGTG AAAAATAACA GTCCACCCCA AGTCATACAC 240
TGGACCCAGT GCCTGCGGGG ACAGGNCTGT GGGTTTCTTG GTCACACCTG TGTTGGTGNT 300
N 301

SEQ ID NO:6275

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07437

SEQUENCE DESCRIPTION:

GATCCAAAAA ACCATTCNGG CCAAGNAACC CTGAAANGNA ACATCTACCT CCCGACCTAC 60
CACCCCACTG GCTGGTTCCA GAACGTCTCT NACCTAGACC TTGCCTCCCC TCCTCTCCTG 120
CCCAGNTCTG ACCCTGATGC TTAATAAACG NAGCGACGTG AGGGTCCTGA TTCTCCCTGG 180
TTTTNGGGGG GNTCCATN 198

SEQ ID NO:6276

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07438

SEQUENCE DESCRIPTION:

GATCTCTACT CAAAGATGTC TTGCAGTTTA TGAAGTGA TGTAAGTTCA TGAAGTAACT 60
GATGACATCG TTATTAATA CATAAACTT ATAAAGCTTA AA 102

SEQ ID NO:6277

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07439

SEQUENCE DESCRIPTION:

GATCTTAATA CCTAATTTCA TCATTTCTGA AAATGTACTG TTTTAGAATG TATTACAATA 60
TCAATGTGAA TATCTTGAAT CCTGTTACAA ATCCTGCACT GTATTAAACA TGTAATTA 120
TTGTTTGTCT GATTAGCCAA TCTCACCACC CAAATGGGGA GGTATACATG TTTGANGAAC 180
TGTGTAAGTC AGTAATTGAT TTGTNCTGAT GTTGTAAGTC ANTAGANGTG TTTTGGAAGG 240
NAGCATGGTG TGTGAGGCAG TGTCTGTCCT TTTGTGCCAG CTCTGTATGN TGTGTTGTTNGG 300
CCNTGTTTGT AGGCCTGN 318

SEQ ID NO:6278

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07440

SEQUENCE DESCRIPTION:

GATCTCGCCA ACAGCTAGCT GCTTAGGAGT ACCCCCACGA TACGCACAGC ACACCACTGT 60
CCCTTCACTG CACTTTCTTC CTGCCTTAGG TAGTTGGGCT TGCCACCCT AGTTTGCTTT 120
TGTAAGTGGT TGGCAAGGTT AGAAGGCCTC GGCCTCTCTG TNATGCTGGG AAGTGCCTAC 180
TCTCTGGGCC ACTGCTGCAG AGGCCGTGGC ACTTGTNATG GGTGTTGGAAG ACCCAGCCAT 240
CTGCAGCAGA GGCAGCCTAT TCCCATTGCA AGGNGNGGAN TGAACGGAGT AATTATTCTA 300
CTNTTCTTTT TACATAAATA N 321

SEQ ID NO:6279

LENGTH:290

01831

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07441

SEQUENCE DESCRIPTION:

GATCCTGCAC GTCCGCAAGC CGGAGAAATA CCAGCTGCAC CTCCACGAGA GCTGCGTGCT 60
GTCCCTGAAG TTTGCCTCCT GCGGACGGTG GTTTGTAAGC ACCGGGAAGG ACAACCTGCT 120
CAACGCCTGG AGGACGCCGT ACGGGGCCAG CATTTTCCAG TCCAAGGAGT CGTCCTCAGT 180
CCTGAGTTGT GACATCTNCA GAAATAACAA ATACATTGTN ACAGGCTNGG GGGCCAAGNA 240
GGGCACCGTG TATGNGTNG TNTNCTTNGG CCATTNNCCC NTTCTGTNN 290

SEQ ID NO:6280

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07442

SEQUENCE DESCRIPTION:

GATCCAGTCT NTGGTATCAT GCTAGTNCTG ACAGGGCCTT GATAGTCTAG AGTTGGAAAA 60
GATGGTAAGC TTTTGTNAGN GTTTTAACAT TTNCTTGATG AAACAATAAA AAGAGGTAAG 120
CTTTTNCCTN 130

SEQ ID NO:6281

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07443

SEQUENCE DESCRIPTION:

GATCCAGTTT TGTTTGGGAC CAAAAACCAG TATTGTACAA AGTATTAAGC ATATATTTTN 60
ATATTTACTA AAATNGACTG TGGTGACTTT GGATAATAAG NAAAANTTTA ATATTAAANC 120
CATGTTTATT ACAGTATAAT TAACATGTTA AACCATGGGG NTAAATGCCA TCANTAAAAA 180
ATTATGNCAT NN 192

SEQ ID NO:6282

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07444

SEQUENCE DESCRIPTION:

GATCCACCCC CTGCCGCAA AACATTGCTC CTAActCCAC CGNCTGTCCC AAAACCTATG 60
NGANCTAATG ATAATCCCAC CACACTTTAC TGACTNTNTT TCCAGACTCA GCCCGGCTGN 120
ACCAN 125

SEQ ID NO:6283

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07445

SEQUENCE DESCRIPTION:

GATCTGAGTT GCAGCTCTGC ACCCTAAATC ACACCCTGGG CATTGTCTGG GCTGCAGGGC 60
TGCCAGGTTC TGTACTTGTG TCCAGCTATG GCCCTGGNTG CTGGAGCTGG AGGGTTTCT 120
GTGCTCAGAC TGTAGCCTGT AGCTCTTGGC CTGTGTAGAG CCCCTCCTG TGCCCTCAGT 180
GGCTGTCGTT TGTTAACATN ATCAGGAAGA TGGGAAAGGT CAGGCAGNAT TTTCTGNCC 240
TACAAAGGGN GGNNGAGAAA GGACACAGTA TTTTNAATGA NTTTACCATA TATCTTTGGN 300
N 301

SEQ ID NO:6284

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07446

SEQUENCE DESCRIPTION:

GATCCTTGNT TTCTAAAAGC CAGTCCTNCC CTNCAGCTTT CCACAGTTTC TGTAATGTT 60
TAATACTTNT ACAGTCAATG GCAATTTTAA ATATATATAT ATAANATN 108

SEQ ID NO:6285

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07447

SEQUENCE DESCRIPTION:

GATCTGGGGG AAAGGCTGCC AGGGCCAAGA GGCTCGTCTC ACTCCCTGCC CTGCCATTTC 60
CCGGAGTGGG AAGACCCTGA GCAAGCAGCA CTGCCTTCCT GAGCCCCNGT TTTCTCATCT 120
GTAAAGTGGG GGTAATAAAC AGTGATATAG GNGTGCAAA 159

SEQ ID NO:6286

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07448

SEQUENCE DESCRIPTION:

GATCACTTGA CTCTTGTAAG CGGACCTATA CTCAAAAGGC TTTGGCACAC TGTCACGNTA 60
TTAGTATACA AATGTGCATT TGTGTTTAAG TTAAANTGAG GTNTGCNGGG TAAACTGCNA 120
ANTAN 125

SEQ ID NO:6287

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07449

SEQUENCE DESCRIPTION:

GATCTACAGT AATTTATTCT NTCTAAAAGT AAAGCATTTT CAAAACCTCAG TATTTAAACC 60

AAA

63

SEQ ID NO:6288

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07450

SEQUENCE DESCRIPTION:

GATCTTTTCC ACTGGNCTAC TACCTGACCA TAAACATGTC TGCATTTGAA TTCTCTAAAC 60
CCTAAATCTG TGTCTATGAA AAATACAAAT GACTATTAAA TAAA 104

SEQ ID NO:6289

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07451

SEQUENCE DESCRIPTION:

GATCTACCCA CCTCGGCCTC CCAATGTGCT AGGNTTACAG GCATGAGCCA TGGCGNCCGG 60
NCAAGTTTCT ATTCTTAAAA TAAAGAGGTT ATACATCTAA NTTACAANTC GTGGCCAAAA 120
NGN 123

SEQ ID NO:6290

LENGTH:296

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07452

SEQUENCE DESCRIPTION:

GATCTGCCCC NCTCAACCTC CCAAAGTGCT GGGATTATAG GCGTGAGCAC CGCCCCCAGN 60
TGATTCCAGG CGAATTCCTC TCTGATGGGC GGGCGAGGGT GTGTTTCGTGT GATGGGTTGG 120
NGTGTGTGTG TCTNNGTACA CAGATGATGT GTTTTCCCTT CAGCTTCTTA CGTTTTCTGA 180
GCATCCGTTG TGCCTTAACA TTTTCTGNTT GTCCTTTGGG NCAAGCAGT ATTTTACTNA 240
TNCTTTGAAT GTTCTCATTC TATTNTATCA TGTGACTTAT TAAAANNAGN TTNTAN 296

SEQ ID NO:6291

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07453

SEQUENCE DESCRIPTION:

GATCTGATGG ATTAATAAGG GGTNTCCCN ATTGCTTGGC TCTCATTCTC TCTTGTCTGC 60
TGCCATGTAA GATGTGCCTT TTGCCTTCCA CCATGATTGT NAGGCCTCCC AGCCACATGG 120
AACTGTGAGN TCATTAAACC TCTTTTCTT CATAAATTAC CCAGTCTCGG GTATGTCTTT 180
ATCAGCAGTG TGCAAGNNGG GGNGNTACAC CACTNCTCTA ACTANNTN 228

SEQ ID NO:6292

01834

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07454

SEQUENCE DESCRIPTION:

GATCCTGTGG TCAGAGGCCT CTTTGGCAGT GTNTTCTTAC CCTTAAGNAA GGTCATGAAA 60
TCCAGAAGGG GCAACCTTTN CAGGAGAGCT TTGGAGTCAT TTCTGTGTGA GNCACTATTG 120
CATAATCCTG NCAGNTTGCT TTTATATTTA AGGANTGATG TTACTTANCA ACTGAN 176

SEQ ID NO:6293

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07455

SEQUENCE DESCRIPTION:

GATCTGACTG CTGGCTATAG GATTTTGGAC TTAATGACTG AAATTGCAAA TTGTCCTTTT 60
TCTTGGCATT ACAGATTTTG CAAAATAAC TTTTGTATC AAATATTGAT GTGTGAAAGT 120
GAAGGAGCTA GTCTGCTGAA CCAGGAATAG TTTGAGATAT TGAAGTGTCA TTTTGNACA 180
TTTGAATACT TTGCAGGCTG GCTTTGTATA AACTTATCCT CNGGNNNCCT ATATGTTGTA 240
AATATNTAGN CCATAATTC ATTATAANTA AANCCTATAA ACTATTCAAA CNAANANCA 300
ANAACANANN 310

SEQ ID NO:6294

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07456

SEQUENCE DESCRIPTION:

GATCCCAAAA AGTTTCCTTC TGCCCTTTT CAATNCCTCC TTCCCGCCCN TCTGCTTTTG 60
TCATTATATA TTACTTTGCA TTTCTAGAA TTTCATATA ATGGAATCAT ANAGTATCTA 120
CTCTTTGTTG TTGCTGGCT TCTNTCACTC AGCATAATTA TTTTGAAACT TATCTATGCT 180
GNTGTGGGTA TCAGTAGCTC ATTANCCNAT TGTGCTGAG TAGTNTTNA TTGTATGANN 240
GTGCTACACG TTATNCGN 258

SEQ ID NO:6295

LENGTH:31

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07457

SEQUENCE DESCRIPTION:

GATCTTAATA AATAATACCT TACTGCTTAA A 31

SEQ ID NO:6296

LENGTH:38

TYPE:nucleic acid

TOPOLOGY:linear
CLONE:HUMGS07458
SEQUENCE DESCRIPTION:
GATCTATGTA CAATTTTAAT AAAATCCTGT CCATGAAA

38

SEQ ID NO:6297

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07459

SEQUENCE DESCRIPTION:

GATCACCTAC TAAGANGTAC TTCCTACNTT TCATTCTTTC TTTATAAGAA TTAATTAANT 60
TTTAATTGAC AAA 73

SEQ ID NO:6298

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07460

SEQUENCE DESCRIPTION:

GATCCACCCA CCTTGGCTTC CCAAAGTGCT GGGATNACAG GCATGAGCCA CCGCACCCGG 60
CCCTATCTCA AGCTTCTTAA CTGCACCTGC TAAATCCCTT TTGCCATGTA AGGTAACGTA 120
CCAACGGTTT CAGAGNTTAG GNTGTGGNCA TTTTGGGGGG CTGTTTTTCT GACTGCAATA 180
CCTGGTNTCC AGTGAATCCA TGTTTAGTGG AGGACAACAT TTGAGGCACT TACATGGATN 240
CTAGGGGACA TNTATGTGAN TGTTAGGCAN AAAGTGCTGC CTNCANGNCA NGCAAATACC 300
NATTNAATAT N 311

SEQ ID NO:6299

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07461

SEQUENCE DESCRIPTION:

GATCAAAAAA TAACTATAAG TATCCTCAGC CAAGTAGCCC ATGCCGCTGC TCTGCCTACG 60
GNGTACTCAT CTTTATTCTT TTACTTTCTT AATAAACTTG CTTTCAATGT ACAA 115

SEQ ID NO:6300

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07462

SEQUENCE DESCRIPTION:

GATCCTACTG CCTCGTCCTC TCAGAGTGCT GGGATTACAG NNGTGAGCCA CCACAGNAAG 60
NCACAAATAG CGATTTTATC TACTACCACC AGAAATCTTC TGACATACTG TTTTACCGCA 120
TGAATATTG TTTTCTTTAT AAATTCCTTA ACAAATCTCT GTTGTATAGA ATACTGTTGG 180

TTAAATATA TCAGCAGCTA ATAGCTCATT TTAAATAGAT TCTGAAAGTT CAAGNATTTC 240
AGGTTGCCAG NCACCNNTAT ACTCTACANA ATCAGANANG GCTCATTCTT GNTTCTNAC 300
ACAACAAANN 310

SEQ ID NO:6301

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07463

SEQUENCE DESCRIPTION:

GATCAGGGAT GTCCAATCTT TTGGCTTCCC TGAGCCACAT TGGAAGAAGA ATTGTCTTGG 60
GCCGCACATA AAATATGCTA ACACTGACGA TAGCTGATGA GCTTAAAAAA AAAAAANTTG 120
CANGAAAAAT CTCATGTTTT ANGAAGGTTT NCAGNTTGT GTTGGGCTGC ATTTAANGCT 180
GTNCTGGGCT GCNTTGGNCC CGNGGGCTN 209

SEQ ID NO:6302

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07464

SEQUENCE DESCRIPTION:

GATCATAGCT CCTGGTAACT GTGGACTTGA TAGATTTNAG GTACCTAGTT CAGAACTCCC 60
TAGTCACCAT CTCCAAGCCT GTCAACATCA CTGCATATTG GAGGAGATGA CAGTGGTAGG 120
ACCCAAGGAA GAGATGTGTG NCTGANTAGT CGTCACCATA TCTCCAAGCT TCCNGGCAAC 180
CAGTGGGAAA AGAAACATGC GAGNCTGTAG GAAGNGGGAA GCTCTTCCTT GGCANCTAGG 240
AGGNNTTAGC CATTCTCTTC CTTATGCAAN GATTGAGGAN TGCAACAATA TAAAGNACGT 300
GNAGTCCCNA NN 312

SEQ ID NO:6303

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07465

SEQUENCE DESCRIPTION:

GATCCGCCCCG CCTCAGCCTC CCAAAGTGTT GGGATTACAG GCGTGAGCAC CGCGCCTGAA 60
NCTGAAGGTT ACTTTTCTTT TCAGTGGTTT GGGGCAGGGT GTTACACAGC TTAATAGATT 120
AAGAAGAATA AAATGCTGAA TGCTAAA 147

SEQ ID NO:6304

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07466

SEQUENCE DESCRIPTION:

GATCATATTT CCTCAAAAAT AAGAGAAATA AGGTTCATAA GGAAACTTGC TGGGATTGTG 60

GTGTTTTGT TTTCTCAGCA GCACAAACAA AACCAGAATT TAGCCTTTAG GACTGCTGAG 120
TAAGCCAAAT TTAAATGACT ACTGCTTTGT NCATGGGTAA GCCATGTNCT TTTCAAAATA 180
AGTGCCACTA AAANCCACAT AATGCTTTGG TTTCTATGTG GCTAATANNT ATTTNGTCCT 240
ATAGTTTATC TTATTTGTNA CTGATTTNCN TCTCTTGNAT GCCTCATATT ANTN 294

SEQ ID NO:6305

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07467

SEQUENCE DESCRIPTION:

GATCCATTCG CCCCAAGGGG ACAACGGGGT GTCAGGGGAG TNAGGGGTGG AGGTAGGGGC 60
CAAAGAGGCT TACACGATAT CCCATACCTT TAATGCCTTT GGCCTTCCAT TCTNACTTCT 120
CTNATGAGAT TATTGTCAAC CCTGCTTTCC CTGGTAGATA TTTGCCAGGC CCAATGCTTT 180
AACCTTAAGC TGATATTTTN CCTTTAGATG TCAATCTCGT TACCAGCAGC CTTTGGACCC 240
AACTNCAGNG NTCTATATTT NCGTAGNGGN TTTTCNCCCA TGTGCATGGA TNTN 294

SEQ ID NO:6306

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07468

SEQUENCE DESCRIPTION:

GATCCCAGAG GCTGAGGGTT GGGGAGAGGA AGCCATCATC TCATTACCTC TGTCAGTGCA 60
GGGGTGGCTN CTNCTTCCCT TGTGCACTTG GGTGCTGTG ATTGTAAATA AACGTGATTT 120
CGTACCAAAA 129

SEQ ID NO:6307

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07469

SEQUENCE DESCRIPTION:

GATCTCTTTG TNATTTAAGA AGTGGCTGGA TTGGAACTTT TAATATGCTA ATNTGGAAAA 60
TTAATTACCT TTATGAAGGT GGTTTATTAC AAATAAGCAC ACTAACCCTT CGGAAGTTGT 120
TTTACCTACT TTAAGAGTTT TANTGGATTG CNCCTCTGTA ANCTATTCCT AANNTGTGTA 180
TGANATATTT NAN 193

SEQ ID NO:6308

LENGTH:291

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07470

SEQUENCE DESCRIPTION:

GATCTTTCTT CCTCTCCAGC CCACAAGTGG CTCTAGTGAG ACGAGCATTT AAGCTGCAGG 60

TGGTGGCACT CGGGTCTCAG AGCCACCAGA CGTGCAGGTG GGACAGTGGT TCCAGCTCCG 120
GCTGCCTGTN AGCGTCCCTC CCAGGTGCTA GCCCTGGCAG GCACAGCCCT NCCCTCATGC 180
CAGCAAAGGA AATGCTCTTG ATGAGAGGCT CGCTTTAAAG AAGCCCAAAG CGTGTGCTTA 240
TCCAAGGGGT TCAGCTATTC CTGACTTCAC GGCTTGCATG TTTGATTTG N 291

SEQ ID NO:6309

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07471

SEQUENCE DESCRIPTION:

GATCATATGT ATTTNTATGT TCTGTAAAGN ATTTGACTTA CTAGTTCTCA ATAAAATTTT 60
ATTAGGACTA TAAAAAATAA AAAAAANTTT TAATAAA 97

SEQ ID NO:6310

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07472

SEQUENCE DESCRIPTION:

GATCTTATGT ACATACCCAT TTTAGCTTTC CCATGCATAC TTAAGTGCAC TTGCTTTATC 60
TCCTTGGGCA TTCTTACTTA GGATTCAATA GAAACATGTA CAGGGTAAAC AATTTTTTAA 120
AAATAAACT TCATGGAGTA TCTGAAA 147

SEQ ID NO:6311

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07473

SEQUENCE DESCRIPTION:

GATCACATTT TGAATGCCT AAAAGACTTT ATTGTTCTAA TTATCCAGAT GTACCTTTGT 60
AAAATAGCTC TTTTATGAAT TAGCTGATAA GGCTGTATGT TTCTGGANCA AATATTGGGN 120
CACCTAAAAC CTTCCGGTTT CCGGGGGCCN GGGAAATNGG AAATNAGGTT TCNAATNTTA 180
AATNAGGNTN 190

SEQ ID NO:6312

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07474

SEQUENCE DESCRIPTION:

GATCTGGATT TTTGCCAATT CCTATGAAAA ATAATCCCCA GAAATAAACT ACTAAGGAAA 60
ATAAA 65

SEQ ID NO:6313

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07475

SEQUENCE DESCRIPTION:

GATCCATTGG TGTTTGGTTT GGGGTGTTTT TTAAGTTTTT TCTTTTATAT CATCCAGAAA 60
TAAAGACACG TACTATAA 79

SEQ ID NO:6314

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07476

SEQUENCE DESCRIPTION:

GATCCAATAA CCCAGTTAGG TATTATAGAT TAGTATTTAA GTTTGCTGTA GATTGTGTGT 60
GTGTGTGCTA AGTAAAAGTN CCATGATTCA CAATTTTAGT ATTAACCCAT GTTGCAAAAAG 120
CTGTTACTGG CCAACAGATT GTNATGATGT GTACCATATA ACACAAGCNT TANCTNGGCA 180
TTANCGTTTG TNAAGCCANN TNTN 204

SEQ ID NO:6315

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07477

SEQUENCE DESCRIPTION:

GATCTCATCT CTGAAAATAA AATACCCCGT TAAAATTCTG GCTTTTGTTT GTTAAGGTTA 60
TTGAGAAGGT AATAGAAAAA GATATGATAC TACTTTNCTC TCTTGGATTT GTAAAANTAG 120
TGGAATTTTC ATAAGGATTT TGTATTTTCT ATTGCTGTAT AACATTATTA ATACAAACTT 180
ATTGGCTTAA NANNCAAANN NNNN 204

SEQ ID NO:6316

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07478

SEQUENCE DESCRIPTION:

GATCACGAAG ATACATGTGT TTGACTGTTT AATTGAAAG TTTACATTTT TNATGCTTTG 60
TGTTGGTGTG TAATTTTGT ACTCTGGTG GCTAGTTTTT GTCAAATCTT TTTTGGAATA 120
TTGCTTAAAT GTNTTGATTT TATGATAGTG AAGCTTGAT TCAGTGTTTT GCCAATNAAT 180
ATTATATGCT TGTAATAANN GCAAAAGANA AGCTTAAA 218

SEQ ID NO:6317

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07479

SEQUENCE DESCRIPTION:

GATCCCAGTG GGAACCTTCA TGCCTTATTN ATTTCTAATG GGTAAGGGG TTTTNTTACC 60
AAGCATCCCT GACCTCCTGG AGACACCACC TGCTTTCCGG GCGGCACTGT GATGGGAGCT 120
GGTGGCGACT GAGTCCTTCT GTACGTGCAA CTGGGAACT TTTGTCCTT GAGGCTAGGC 180
AGCTCCCTGC CCTCCGTGTG TGTCTGTTAT CTGGGGGAGA GGAGTGTGG AAGGNNTTGG 240
GGGAAGAGCT CCAGCCTGTN TTGNTCCCAA AGTTCTNNAG TGGGAAGACC NGGGTNACCT 300
TTTNAGGGTN TANGGTGNGG GGAANTTNTT TTTTN 335

SEQ ID NO:6318

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07480

SEQUENCE DESCRIPTION:

GATCTGCGTG TCAAAGTGT CCATTTGTTT ATGTAAAGTG ATATTAAAA AGATATAAAC 60
TAACTGTC CGTTACTTTT GGCAAAGAT ACAACCACAT AATGTATATA ATTCCTAGTT 120
TCCATATTA TCCGCATGTA AAGGGCCGGT TTATCCATGT TACAGCTCTT CAATATTTAT 180
GGCTAGAAGA NCTCGTATGT AACTTTAGT TTCCAGAACT GTTTGGTAAC CTTTCGTACC 240
TNATTAGAGG ATTCTNAAAT CTCAA 266

SEQ ID NO:6319

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07481

SEQUENCE DESCRIPTION:

GATCCACCCA NCTCGGCTTC CCAAAGTNCT GGGATTATAG GCGTGAGGCA CCGTGCCTTG 60
CCGATAAATG GATTNNAAAG TGAGTCTTTG AGGGAAGAGT AGGACCTGCA CTGAAACAAA 120
AAGACAATTT GTGGGGTTGG GGNGAGGAAC CAGATGTAAA CAATGGAAAG NTTTTGGTGT 180
CACTTTGAGN NGGATTTTTT GGAAGGGTTT TGCAATGTCC ATTCTGTATC TTGGGTTANC 240
ACTAGTAAGT CAAATGGNGA ATAATTTGAG TGTCACNT TCCCTNCAGT TNGGAAAAAN 300
TTTTTANCNG TTN 313

SEQ ID NO:6320

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07483

SEQUENCE DESCRIPTION:

GATCTGTGCT TTTNCCCACT TTGCCACACT GTCTAAGGTG GCTTTNAACT GGAACCCAAG 60
TGCAAATAAA GGTGGTATT CGCTCCTGAA AAAAAAAAAA AAAAAAAAAA AAAAAANAAA 120
AAAAAAAAANA AATNAAACNA AANN 144

SEQ ID NO:6321

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07484

SEQUENCE DESCRIPTION:

GATCCCTCCT CACTTGCCCT GCCACTTTGC ATGGTTTAT TCTTAACCTG GTCCCCCAG 60
TGTNAAGTGT AGTGGCATCC ATTTCTAATG TATGCATTCA TCCAACAGAG TTATTTATTG 120
GCTGGAGATG GAAAATCACA CCACCTGACA GGCCTTCTGG GCCTCCAAAG CCCATCCTTG 180
GGGTTCCCCC TCCCTGTGTG AAATGTATTA TCACCAGCAG NCACTGCCGG GCCTCCCTCC 240
CGGGGGCACT GCCTGAGGGC GAGTGTGGGN NTAGCATTAG CTGCTTNCTN CNNCCTGGN 300
ACNACTGTG GCCTGGAATN GNATAGTGGT NN 332

SEQ ID NO:6322

LENGTH:376

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07485

SEQUENCE DESCRIPTION:

GATCTAATTA ATGTGAAGGA CTNGCCAGTC TGGGAAACCG CCTGCCACGT GGAAGAGCCA 60
AACCCGACTC TNTGCTGCCA CATGCCGTTT CCATGCCCGG CTGCTGGGCA CCTGGNAGAG 120
CTTCCAGAAT CCTCGCAGAC AGCCCAGAGC CTGCCGCTAC CCTCGGCCTG CCCACCACCA 180
AGCAAGCAGC AAGCAAGATG GGGTTCTCAT CAGTTCTTCC TTCCCACAAT GTAGGACCTT 240
TCCTTTTACC TTTNCAATGG GATAAAATAG TTCAGAGTTC ATTAGTCATA TTTCATTGGN 300
CACAAGGAAT TCAANGGTTT TTTNANCAAT TTANCANTTC ACCCGTCTTA TGTNGTTTAA 360
NANTNANANC NANTCN 376

SEQ ID NO:6323

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07486

SEQUENCE DESCRIPTION:

GATCACAGAC ACCCAGTNCG TGGNCCCTGT CTTACCCCA GCNAGCATCA TGTNAGTGGG 60
CCTCGTTCCC CCCGGAGAAT CCCAGCGGGG CCTCANAGAT GCATCTGGN 109

SEQ ID NO:6324

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07487

SEQUENCE DESCRIPTION:

GATCTTGGCT GCTTTTAACT AGAAGGTTGC TTTNATNAGC ATATTTATAC TGCTGAAGGA 60
TGAGTGTAAT TTTAAATTA CTTTGCCGTT TTGTAGAGAA AACTATTAC AAGATAAATN 120
CCAAGTCTTT NCACCTGTCA GGCATGCATA TNTNAN 156

SEQ ID NO:6325

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07488

SEQUENCE DESCRIPTION:

GATCCAGTG AAGGGTTTG TGTGTTTAGG CCTCATTTCT TTGTCTTTT CCTACTCCGT 60
TCCTGGCATT TCCTGATTC NAGTGTATAC TCTGTAGTCT CAGTTCGTGT TTGATTCCAT 120
TCCATGGAAA TAAAAAGTAT GTTGTACATA CTGCCGAAGA ATTGTCTTGC AAGTAAAGGC 180
TTCCCCCTTT ACTATAAGAC TATAANTAAA ACCTTATTN ATCCTTAAA 229

SEQ ID NO:6326

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07489

SEQUENCE DESCRIPTION:

GATCTTACAC ATTCTGTGTA TAAAGACCTT AACTCCACAG GACGGACATT TTAGAGTTTA 60
AATTATTAAG GCTATCATTC TTTTAGTAAT GTCATATTG CAAACTTTTT NAGTTTTGGC 120
CTTTAATTTA AAANGCCTAA TTTTAANGTG CTGCCTGTNA GTAACCTCTG ANTAANANCA 180
ANTTATNACN 190

SEQ ID NO:6327

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07490

SEQUENCE DESCRIPTION:

GATCTCAGCT CTTTNGGTGA CTGCATATGC AGTGGTGACC CAGCACAGTT TCCATCAATC 60
TCGTCAAAAG ACTTGAGGTT GTTGGGCACA GTATTTTCTG TGACCACAGT TAAAAAGCTG 120
GGTATACACA ATTAACANCC AANGTGATAT GCATTTATAC CTTTCCCTTT ATGNCCAATT 180
TCTTTATAAA TATGGCTCAT CTGCTCATAA CTGTTAGNCC CACCCAACCTG TCATTAGTAA 240
CCTGAGTGTT TATGCTTGCA AACTGTATG TTGTTATTGT CTGATTTGAT NATATTCNGT 300
GNTGTTTAGN GAATGCNGTN GTGTTTNANT GNATCACAAA NAATTNCCCC ATTN 355

SEQ ID NO:6328

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07491

SEQUENCE DESCRIPTION:

GATCATTTGA ATCTCAGTCT TCAGCCTGCA CTGATTTGTA GCCTGCACTG TCTTACTGAT 60
TTACAAACTG AAATCACTGA GAAATGTCTT TAGTTCAGTG AGAAGAAACC AGAACACTTG 120
TTCTAGTGT TGTGTTGTTT TTTTAAAGCA AATTACTTAC TGTATTTTNA TGGCAGGNGG 180
GNGAAAAAGT GTTACAACGG TTTCTAATGA AGTCCGGTAT TTANNTGGTA AATGACTAAT 240

GTGTTTAGTA GTGCCAAANT AAACCATTAN NTGNTTGTCC TTTGCCAAAN ANANNANN 298

SEQ ID NO:6329

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07492

SEQUENCE DESCRIPTION:

GATCACAAAG AAAAAGCATT TTAAAAAGT TGGCAAACGC TGAAACGCAC TGTGGTATGA 60
GGCGCATTGC ATTTCCATAG CACTGAAGTA CCAGTTTCCA TTCCTGGGCT GNGATTGTTT 120
TTCCCGTGGT TGTATTGTTT TGATTTAACG ACCACCAGNG TAACTGNTTT TTNTTTGTTT 180
GTTTNCCTGGT GGGGTNNCCA CCAATTAAAA CTNNTANAAN CCCGN 225

SEQ ID NO:6330

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07493

SEQUENCE DESCRIPTION:

GATCGACTTC GATAAAATAC TTTTGCCTAA TCAAAATTAG AGTGTGTTT TGTCTGTGT 60
AAAATAGAAT TAATGTATCT NGCTAGTAAG GGCACGTAGA GCATTTAGAG TTGTCTTTCA 120
GCATTCAATC AGGCTGAGCT GAATGTAGTG ATGTTTACAT TGTTTACATT CTTTGTACTG 180
TCTTCCTGCT CAGACTCTAC TGCTTTTAAT AAAANTTNAT TTTTGTAAG 229

SEQ ID NO:6331

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07494

SEQUENCE DESCRIPTION:

GATCTAAAGA CCCGATAGGT GCAGAACCCA TCTGGACACG GAGACCAGGA ATGGAGTTCC 60
ATGGAGGCCT GGCTGGCACT GCACCCGGGC ATGAGGACAC ATCCAGTAAG AAGACCTGCC 120
TCAAGAGGTG CACTGCGGTG ACCAGTGGAG GTNACTGGT GGAGCCTGGA ATTGGAAGCA 180
GATTCCAAGC TCTGGTGGAC AAACCTCTCA GGCCTGGTGG GATTACAGC TGGGGCAGNC 240
CTCATCTGG CTGCNTGGCC ACAGNCCCN GCTNTTTNCC ACTTGGTGGT AGGGCCGATG 300
CCTTNTTTGG ANGAGNTGGG NTTNTTTTGG TCNCGACTGN GTANN 345

SEQ ID NO:6332

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07495

SEQUENCE DESCRIPTION:

GATCACAAAG AAAANGCATT TTAAAAAGT TGGCAAACGC TGAAACGCAC TGTGGTATGA 60
AGCGCATTGC ATTTCCATAG CACTCNAGTA CCAGTTTCCA TTCCTGGGCT GAGNTTGTTT 120

TTCCCGTGGT TGNATTGTNC TGATTTCACG TACNCCAGAG TAACTGNNTT TTTTTGTTT 180
GTTTTCTTGT GGAGTTAACA CCANNTAAAA NTTGTAAAN 219

SEQ ID NO:6333

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07496

SEQUENCE DESCRIPTION:

GATCTATTTC TCAGCTTCA CTTATGTGAG CCAATAAATT CCTTTTTTGT TGAAGGCAAA 60

SEQ ID NO:6334

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07497

SEQUENCE DESCRIPTION:

GATCTACCCC CCCATCAACG TGCCCCCTCG ACTCCCGGTG CTGCGGAAGA ACTGAAGGTT 60
GCNATGCCTT ACTCTGACGG GAGCATCTGT ATTTTAATGT TAAAAGCCCA CAAAATAAAA 120
ATAAAAAGTA ACTGAGATGA ATTTAATAAA CAAA 154

SEQ ID NO:6335

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07498

SEQUENCE DESCRIPTION:

GATCTATGCT GTATGCACAG ATTGCATAAT GGCTTTTTTN CTTAACATTA TGTGATAAGC 60
ATTNCCTGA ATAANCTTAT TTAAAATAA A 91

SEQ ID NO:6336

LENGTH:181

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07499

SEQUENCE DESCRIPTION:

GATCAGGTGT GGCCAATNAA ATTNAAGAGG AAGTCTACCT GGGNTTCTGG GAAAGCTTTT 60
CCAATAAAAG ACACAGGCAT GGCTAACACC TCCCTGGGCC TCTTCTTCCT ACCTTGATTG 120
AGGGTGTGAT GCCTGGAGCC ACAGCAGCCA CTTTGNNNNC ATGACAAAAA GGCCAAGNGN 180
N 181

SEQ ID NO:6337

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07500

SEQUENCE DESCRIPTION:

GATCACAAA ACCTGATGTT TTAAATNTGC TTTCTTTTGG AAATTTATGT TTTCAAATAA 60
AATCTCCCTA AAGCAAA 77

SEQ ID NO:6338

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07501

SEQUENCE DESCRIPTION:

GATCCTATGA GTGTAGTTAA TGACTGTTNG TAAGTCAGTA GAGTAAAATN CTGTGTCCAC 60
GGGGTGTAC AGCCTCACCA TACCCTGTTG AGGTGTGAAA TGCCCGTCA GAAATTAAAT 120
ACAACTTAA ATGTGCCTAT TGGTGTCTAA NCTTCATACA ATGTAAGGNC AGATTCCTTT 180
TNGGNNTACT GGGTGTCTGC GCCAGGTTTG NTAGTTAGAC TTAANAANCTT GANATTCACT 240
TTTTGGGGGG NGGGNTATAC TGANN 265

SEQ ID NO:6339

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07502

SEQUENCE DESCRIPTION:

GATCTATTGG AAAACAACAT GGAATGGAAT TCTGGAAATN ATTATTCATT GAAGAATGCA 60
GTGGCCAAGA AAATATCAAA TGTAGATTGT NAACGCTTGA GAATCATGGC TATGGTTTCT 120
NATGTCCTGG TAACANGCTG TTATCTTTNN NGACATTTTN N 161

SEQ ID NO:6340

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07503

SEQUENCE DESCRIPTION:

GATCTAGTTA TAAAATACAT GAAAAGGCTG ATGCAGCAAT CGGTGGAATC GGTTTGGAAT 60
ATGGCATTGG ANTTTATTCT TGACAATGTC CAGGTGGTTT TANAACAAAC TTATGGAAGC 120
ACATTAAAAG TTACATAANT ATTACCAGAG AGCCTGATGC TCTCTGATAG CTGTGCCATA 180
AGTNCTTGTG AGGTATTTNC AAAGTGCATG ATAGTAATGC TCGGNGTTTT TATAATTNNN 240
NNTTCCTTTT AAAGCAAGTN TTTTGTACAT NN 272

SEQ ID NO:6341

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07504

SEQUENCE DESCRIPTION:

GATCAGTGTG GAAAAGCCTT CANTCAGAAA GGAAGCTTAA TTNTNCACAT CAGAGTCCAC 60
 ACAGGCCTGA AGCCCTATGC CTGTNCCCAG TGCAGGAAGA GTTCCACAC CAGGGGGAAT 120
 TGTATTCTGC ATGGCAAAAT CCACACAGGA GAGACACCCT ATCTNTNCGG CCAGTNTGGA 180
 AAAAGCTTCA CCCAGAGAGG GAGTCTGGCT GTGCACCAGC GAAGTCTTCA CAGAGGCTCA 240
 CCCTTTGACC ACTTTCCTGA AGAGAAGTTC TCTTTATGAA TTAAGGAGTA CAAAATCCTC 300
 TGAGNTTGAN GCAACCCTAT CCAAGTTTCT ANTGGGANTG GTTGN 345

SEQ ID NO:6342

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07505

SEQUENCE DESCRIPTION:

GATCTGTCTG CCCATCTGGC CCAGGGGGTC CGAGAAGGGA AGCCTTGGGC AAGAGGNGAC 60
 CAGTTGCAAT ACTGTACTTC CTGGTCAGTG GCCAGAGGAT GCGTGCAATA GCAGAGGCCA 120
 GGTNACCCCT TCAGCCTTGG CCTCTGCCNC TCCATTGGCC CTCCCTNCCT GNTNCTNCNT 180
 GGTGTNGGTC AGTCCTTTTC TAAAGNTGTC CN 212

SEQ ID NO:6343

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07506

SEQUENCE DESCRIPTION:

GATCTTCGTA TAATTGGCCA CTAATGTGAG AGTTCACTAC TAGGCAGAAA CTATTATGGA 60
 CAGTNAATA ATGACTTTAA TCTACCACG TGAGTTTAT GCAGTCTTTC CTGTCTAGCC 120
 CTTGCCTCTN CCTGCCCATG TNATTGCGGT GCAGTAGTTT CTGTNGTATA ATAGTGTGGA 180
 CAGCAGCTCA GAAAAGGAGG GAATGCTACT GATAATTTGT AGATAATNNN NTTTANGACT 240
 TAGGGGAACC ATTGACCTTT GANATTTTNA TTAGAAAATN ATTTGTNCAG AATCAGACTC 300
 CATTATTNC CATATN 316

SEQ ID NO:6344

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07507

SEQUENCE DESCRIPTION:

GATCAAAAGG AATGATGTAT TTTTAACGTG TTGGCCAAAG TCACTGGATA AAATGAGAAT 60
 TGTATATTTN TAATTCATTT TGCAAATNCA GAAAGTTGGT CCAGATATAT GTCACAGANC 120
 TTTNCACTTG TATACTACTC TTACAATGGA AAANNNTCCC GAAANCTGTA TACTTCTGAT 180
 TANN 184

SEQ ID NO:6345

LENGTH:361

TYPE:nucleic acid

01847

TOPOLOGY:linear

CLONE:HUMGS07508

SEQUENCE DESCRIPTION:

GATCAGACCA TGCAGGTAAG GTGAACCAGC TGCACGGACC AGGTTCCCGC AAAACATTGC 60
CAGCTAGTGA GGCATAATTT GCTCAAAGTA TAGAAACAGC CCACCTGTGC CCACTTTGAC 120
CATTGGTGAG GATAGATATA AAATCACTTC TTCCAACGAA GCCTAGGTGA AAATCTATTT 180
ATAAATGGAC CACAACCTCTG GGGTGTCGTT TTTGTGCTGT GACTTCCTAA TTATTGCTAA 240
AGAACTACTG TTTAGTTGGT AATGGTGTA AATTACATTC AGCTCCTTCT TGTCATATAA 300
ANAGGAATTT GGNGGGTGTC GGTTTAAANA TTTTATTNCA CCTGTACCAT TTNGTCACTC 360
N 361

SEQ ID NO:6346

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07509

SEQUENCE DESCRIPTION:

GATCTGTTGT TATACCAATT GAATTAATTG AGTTNNTTGT TGGACATTG GGTGTTNC 60
AAGTCTTTC TATTGTGAAT AGTCAATGGC AGTATTTTNA ATGTTGGTCT ATTATTGTAC 120
TAAATAGTTG TTTATATTGA GCTTGGGAAA GCTTTCGTGT CCAATAGAAA TAGCATATTA 180
AAATAAATGC CACTGTATAT NAATGANAGT GTTGATTATA TACCCTAGAN ACTTAANCCT 240
TAAGGNAGTT ATGTNTNAAT TNNCTN 266

SEQ ID NO:6347

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07510

SEQUENCE DESCRIPTION:

GATCAACTCC AGTTTCCAAT GTCTATGTGT CTATGTGTGT ATGTNCCATA CATATGTATT 60
CACATGAAGA CCGGCATGGC CAAGTNCTGC TGGAGGAGCA CTCAAGTGTG ACGAGCAGGG 120
CCACTGGACC CTGCAGGGCT GTGGTGATATA TAGTGCAGCT TTGGAGGTGG AACTCTATTT 180
NAACACTTTT CTATGGAGCC TTCCGAGTCC CAGGTTTNA CTTGAGGCTG TCTGTCTGGA 240
TGGCGGTTT NAGACCTCCA TTAACATCCC TACCCAGCAT TCTGTACTTC GGGGGNCTT 300
CTATCTTGTN ATAAACTTN TTACCAAGTG GAACATCGGT TACCCACCTT TTGTN 355

SEQ ID NO:6348

LENGTH:358

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07511

SEQUENCE DESCRIPTION:

GATCGTCTG CCTTTGTAAG GCAGATTGG AGGGGAGGCC CAACAGCAA GATGGAGAGG 60
AAAAAGGGAG TGGAGCTTGT GGAACAGGAA GCCCCCAGG GTCTGTCCAG GGCTGCTCAG 120
CTCTTNAGGA TGTGTGGAT GGTGAAGTGG TGATGGTGTC CTGGAGCAGC CCAGCACCTC 180

CACTGGGCCC AGAAGGTCTT GACTTCGGAC ACTTACCCCT GTTTCACAAG TGTTTATAAA 240
GCTGTTTTTN CTTTNGTTTT TCTCCTAAAT AATCCTTACT TGGTAGTTAT NAATCCTTCT 300
TTGGGGGAGG GACAGGGGCT TTAANCTG GAGGAAAATT AATTTNNAT TAANGGAN 358

SEQ ID NO:6349

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07512

SEQUENCE DESCRIPTION:

GATCATGGAA GCTCCGTGCC CCTTCTCCCA TTCCTTGCCC TAAGTATCGC CTCCATCTGG 60
TTGTTTGTCT GTATCCTTTA TTAATAAACA AGTAAATNTA AGTAAA 106

SEQ ID NO:6350

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07513

SEQUENCE DESCRIPTION:

GATCAGTGCC AGAAGTCATT GTATTCAAAG AAGAATAAGC AAGAAAGAAA AGAAGGAAGG 60
AAGAGAGGTA GACAGATACA AGATGAAATC CTGTCAAAAA ATGGAAGGAA ANCCAGAAAN 120
TGAGAGTNNN CCANN 135

SEQ ID NO:6351

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07514

SEQUENCE DESCRIPTION:

GATCAGGAAC ATGGCAAGGA ACACCACACC ACTGCTTTTN AGCATTGTAC TGGAAGTNCT 60
ATATAATGCA GTGTAAAAA AAAAAGAAAT AAAATGCACA TAGATTTGAA AGGNTGAAAT 120
ACAACTTTNT NCACAAGTAA CATGATTGTN TTTNTN 156

SEQ ID NO:6352

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07515

SEQUENCE DESCRIPTION:

GATCAAAAAG AAATATGAG TAACAAGCTA TAACATAGTT CACCACAATG GGACCCCCC 60
CCCTTTTCTT NACCCTACAG TTAGTAATAT TNCAATTAAA NTANCTATAT TCTNCTATAT 120
TTTNCCTGTT AAAN 134

SEQ ID NO:6353

LENGTH:107

01849

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07516

SEQUENCE DESCRIPTION:

GATCCACATA TCTCTAACAC CATTAATATG AATCATTGGA AATATTTTAC TTATTAACAA 60
AGTCTCTTGT GTTAAGCTAC AGATAAAGCT TTTGTGGTAG TGTCAAA 107

SEQ ID NO:6354

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07517

SEQUENCE DESCRIPTION:

GATCCAGAGA CATGTGGCAG CAGGCATGGC TTCCCCTTGG CCTCTCTGTA CACTGCCCCA 60
GGACTGTCAT TTTGGCATCT GCAAAGGAAT CACTTTAGAA AGCCAGCACC TGGTTGATGT 120
GTATTCATAC TGACATTAGA TTGATGTGCA CTGCAGGGGN AANNGCGGTA GCTGNCACAG 180
NAAAAGGATG TTTTGATAGG AATAATTTTC TAGTATGTCT TGAAACATGT TCATCTGGAA 240
GTATTTTCCT CCAAAGTAAT GTAGCATGAT TTTNCAAGGA TTGTTAACAT GCCTGGGATT 300
GGGAAAGNTA GGCCTAANGT TGTGCCAAAC TATATCAATA AATTCCTTN 350

SEQ ID NO:6355

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07518

SEQUENCE DESCRIPTION:

GATCCCACTT GCATGCACCC AGAATTTTAT ATTCCCCAGG AATATAGCAG AGGAATATTC 60
TGGTATCATA TTTATCTTTC ACCATCTCAA AAATTACAGT TTTAAAACT CAAATAAAAT 120
TCATCACTAT AACCAAA 137

SEQ ID NO:6356

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07520

SEQUENCE DESCRIPTION:

GATCCAACCC TTGCTAGGTA TCATAGTTTA GGCCCATTTA CCTTCCCCTG TACTGGCAGT 60
TCAGCCGCTT ACATGCACTC ACCCTGTTTG TGGCTATTTT AAATTCATAT TATTAACAAA 120
CAAAAAAAC CAAA 135

SEQ ID NO:6357

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07521

SEQUENCE DESCRIPTION:

GATCCTGTCT CAAAAAAAC ATAACCGACA TCCAGAAGTG AAATAAATTA GCCAGTGTCA 60
CAAAGTAAA 69

SEQ ID NO:6358

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07522

SEQUENCE DESCRIPTION:

GATCTTAAAA NTACAAAATG TAGACAATTA ATATTCAGGT GCTTACTTTT GAGCCAATAT 60
GTAGCAGAGA AAAACTAATT NNTCTGTGGC AGTATTTTNA TTTTNGGCAT TTCCCAGGAA 120
TTAACTGAAG ACTAAACTC ATATGTGANG TGTAATGATA CTANGGNAAG AGTCAGTAAA 180
ATTNCCATTT GGCTACCAAAA 200

SEQ ID NO:6359

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07523

SEQUENCE DESCRIPTION:

GATCTTGTAAT ATATATAAAT NTAAATAANA TTAAANCTGT AATTCCTTTN CCCTCCAAAG 60
GCTTTTNTGT ACATGGCGCT GCATTGGCT ATTCCTTTG GAAATAAATA ATGTN 115

SEQ ID NO:6360

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07524

SEQUENCE DESCRIPTION:

GATCTTCCCA CCATCACAAA TGAATTAAA GATGAAAAGA AACTCAGTTG CTCATACAAC 60
TGCAATTTTC CTGCTATTA TGGGAAACAT CAGACGTTCT GAGTAAGATA TATCTCATGG 120
CATTAGTTAA TATAACTNAT ATTGTTTAA TCATGGTATT ACATGCAATT NATATCAGAT 180
AAAAGCAGAA CACATTTTGT TNCTGCCTCT CTAAATGCT GAATGTAGCT GTNATGTATA 240
ANTCCATTTA GTTTTATGTN CTAAAGNCT ATTTGTGCAC TCCAGNTTN CAGTAAANTA 300
GNATTCCTAG TAAANCNNN 319

SEQ ID NO:6361

LENGTH:141

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07525

SEQUENCE DESCRIPTION:

GATCCTAATT TNNTCAGGAA TCCCAGTGGA ACCCTGTGCT GTTNANACAT CAGTGTGTAA 60
AACTCTCTGT GTCCCTGTTG GGCTGTCCAG ACAGTCTGGA CTCTGTGAAA TTAAANATTT 120

AATTAAAGGA AACAAACCAA A

141

SEQ ID NO:6362

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07526

SEQUENCE DESCRIPTION:

GATCTTTTGC TTAGACGTTA ACTTGATGCA TCATTGGAAA GNTGTTTCTC TCATCTCTGT 60
CCTAAGGCTT GATAAAGTCA TTAAATTTGT NTTCTTTTGA CTAAA 105

SEQ ID NO:6363

LENGTH:392

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07527

SEQUENCE DESCRIPTION:

GATCTCAGGC CAGCCGTTTG TNCTCCTAGC AGGGTTGCTG TGCTGGCCAC ACGGAGAGGC 60
CCTAGAGAGC CTCATGGATT GTAACATAAG AAGAAACGGT TCCTTTTTGT TTTTAAAAA 120
ATNATTTTAA AATACCGTTT TTAACACCGT TCTCTCGGTA CTTTTTTTAA GCTAAGTCAG 180
CATTGTCTTC CAGTGTTAAA GGCATCCCTC ACCTCTGCAT TGACCTTACG NATCCATGCC 240
AAGGAATGGG ATTTCCATCC CTGNGGCCAG TCAGTTAGGG TGTCAATTGT NCCTATTTGA 300
NTTTTAAATG NAATCTGATG NGGTGAGNTC AGGTTTANAA NTCTTCAAAAN GNNCGGTTNA 360
TTGTACCAGG NNTGNTATGG ATTAATCCNT GN 392

SEQ ID NO:6364

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07528

SEQUENCE DESCRIPTION:

GATCTCCATT CCTTGGGCTC CGCGTCCGAN TTCATGGTGC GCCGCTGTGC TGGGAGCTGC 60
AGTGGAATN TNTGGGACAC CTTGACCAAA GGGGAGCTTT GTNTCGTGTG TTTTGAAAAA 120
GGCTTAATGA AGAGAATGTT GTTCATTCTT AGTAGTATAG TTTGCAATTC TTAATGGCAA 180
ATAATAAGTT TCAGTAGAAA ACAA 205

SEQ ID NO:6365

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07529

SEQUENCE DESCRIPTION:

GATCCTTTTC TACCCACTTT CCTATGGAGG ATTCCAAGTN ACCACTTCTC TCACCGGCTT 60
CTACCAGGGT CCAGGACTAA GGCCTTTTTN TCCATAGCCT CAACATTTTG GNAATCTTCC 120
CTTAATCACC CTTGCTCCTC CTGGGTGCCT GGAAGATGGA CTGGCAGAGA CCTCTTTGTT 180

GCGTTTTGTG CTTTGATGCC AGGAATGCCG CCTAGTTTAT GTCCCCGGTG GGGCACACAG 240
 CGGGGGGCGC CAGGTTTTCC TTGTNCCNCA GCTGCTCTGC CCNTTNCNN TTATTNCCTG 300
 ACTTCAGGNC TTGAAACNNT TCCNGTGGTG TAAATAAAAA ANN 343

SEQ ID NO:6366

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07530

SEQUENCE DESCRIPTION:

GATCTGTACT TTGAAAACAC ATTGAGTCCC TTAAACCAGG AAGAACTCTT CTGGGCGACC 60
 GTCCACATGT TCCTTTCCT TCCTAATGAC GTGAAGTCTG AACTCTACAG AGCCTCTGTA 120
 CCTTCTCTTT AAAGGCAGCT CTGCTCACCA GGAATTGGCT ATAATNCTT CCAACTCTCT 180
 CATCATTTTA ATAGCTATCA GCAAATGTAG AGGTGTAGGG GATTTTGTAA CATCTGATGT 240
 ATGTAAAAAG ANATATTCAA GTTGGAAGGC AGNCTAGAAC TGNCTGNGA GATGTTTGAT 300
 GTACACATTA AANNTAAGGA ATTTTACATA AA 332

SEQ ID NO:6367

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07531

SEQUENCE DESCRIPTION:

GATCAAGAAT GGCAAGAAAA TCACAGCCTT TGTACCCAAT GACGGTTGCT TGANCTTTAT 60
 TGAGGAAAAT NATGAAGTNC TGGTTGCTGG ATTTGGTCGC AAAGGTCATG CTGTTGGTGA 120
 TATTCCTGGA GTCCGCTTTA AGGTTGTCAA AGTAGCCAAT GTTCTCTTT TGGGCCTATA 180
 CAAAGGCAAG ANGGNAAGGC CNAGNTCACC ATCCCCTAAA TTTTAAAAG NAGTTTCACA 240
 AAGTNTGCA TATTTNNN 258

SEQ ID NO:6368

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07532

SEQUENCE DESCRIPTION:

GATCTGTACA TTATTGCATG TGGCAGTAGT GTATTTNCAT TTTGCATACT ATTCCATTTT 60
 AAGAATATAT TGCTGTTTAT CCTATTGATG GATATTTGTA TTTNTNATAC TTTTGTGTAA 120
 TAATAAAAAT ACTGCTGTAA ATATTAAA 148

SEQ ID NO:6369

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07533

SEQUENCE DESCRIPTION:

GATCTGATTC AAAGATAACC ATTACCCATC TTTCCAAGGC CCATCTAAGT AGTACAGGTG 60
 TTTTGTCTTT TAAAATTGAC AGTCCTCTTT GCATTAAGTC TGTAGGGGGG GAATACAATA 120
 TAAATATTCT NCTGTGTAAA CGTAAGAATG TGCTGTAATC TCCAGTTCCT TTGGATACCT 180
 CAGAATTCTA TTTATTGTAT ACACTTATAC TGTTTATNCA ATGTTTTGGG TCTTACTCTT 240
 TTTGACGTAT TCTCATCAGT CTTCACTCTA GTTTGCAAGC NCTGAAGTTA TTGATTACGT 300
 CTAATGTGCA ATTNGGCTTC TATTAANTGC TATTTNATGG TTCN 344

SEQ ID NO:6370

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07534

SEQUENCE DESCRIPTION:

GATCTNTGTC ACACCCAAGC TGGTGGAGGA GCACCTCAAA AGTGCCCAANT ATANGAAACC 60
 ACCCATCACA GTGGACTCCG TCTGCCTCAA GTGGGCACCC CCAAGCACA AGCANGTCAA 120
 GCTCTCCAAA GAAGTGAGCA GCCTGGCCCC TGCTGTCGGA CCTGAGCCTC CTGGCTNNGG 180
 GNCTGTAAAT ATGTATAGAC CTGTTTTGTC ATTTTTTTAA TAAAGTCAGT TCTGGTGGCC 240
 CTGNGACTTT GGNAGGGNAA GGGGGAGGCC ANAAANANTA AANGGGGGGA AN 292

SEQ ID NO:6371

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07535

SEQUENCE DESCRIPTION:

GATCCACCTG CCTTGGCCTC CCAGAGTGCT GGGATTACAG TCGTGANACC GCACCTGGCC 60
 AATTTTAATA TTTTAACTGA AGATGTTTCA TATAATATTC AGCAATATAA AAATTACTAA 120
 TGACTTTTTT GGTAAGAAA 139

SEQ ID NO:6372

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07536

SEQUENCE DESCRIPTION:

GATCCTAACC GNAGGCCCAT CAATTGCAAC ATAGAGATAC ACATGGAAAG AGGGTTTAAC 60
 AGACCCTCTC TNGGACACAN CTGTTTCTCC TTTGAGCANT ANTTN 105

SEQ ID NO:6373

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07537

SEQUENCE DESCRIPTION:

GATCCAGACC AGCGTCTGGC CCAAGCCATT CANAGGTGGG GTCTGGGGNC TGGGGGTTTT 60

GTNTCGTGAC ACTTTGTCTC AAGGAGATTC CACATAGGGA TTTNAATTAG GCTTTCTNCT 120
TGCNAAGGCC TGTGGCATCT AANCCTGGCT N 151

SEQ ID NO:6374

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07538

SEQUENCE DESCRIPTION:

GATCTNAGGC AGATAAAGAA ACTTCAACTT ATTTNAGAGA GGAGGTAGGG GATGGGGAGG 60
TCACAGAGAA CTCTGGGTTT CTNCAGTTA CTATGCCACA GCACCATATT TCCGGGTATG 120
AGTTCTGAGC CCCACAATGG CCATAAGCAC TTAACCACAG ACCTAGTGAC GTATGTATAA 180
NATATACACT AGATTCCAAA GNCTTAGTAT ACAAAGACC ATAAATATC TTATTTGTAA 240
TTGTTTAANA CTGATTACAT GTTAANNTGN TAATNTTTN NNTATANN 288

SEQ ID NO:6375

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07539

SEQUENCE DESCRIPTION:

GATCCTCTAC CCCCAGGAATG AGGACACACT TCAGGACCCA GCCCCACTGG AGTNTGGCCA 60
AGNATTCTCC CAGCAGGAAA ATGGCCATTN CATGGACACC AATGANTGCN TCCAGTTCCC 120
ATTGNTTGC CCTCGAGACA AGCCCGTATG TNTCAACACC TATGGAAGCT ACAGGTGCCG 180
GACCAACAAG AAGTGCAGTC GGGGCTACGA GCCCAACGAG GNTGGCACAG CCTGCNTGGC 240
TCAAGTGGCC TTTTATAGTG GGTATTCTTC AGCCGTCTCT AGAATCTTN AGCCTCTTN 300
TNGGGCCTCA NATCTTTGN 319

SEQ ID NO:6376

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07540

SEQUENCE DESCRIPTION:

GATCTCTGTA TGNTCTGTGT GTTCTGTGT CCTGGAATTG GATGCGTGGG ACTCGTTCTG 60
TCCGCGGAGT GCACTCTTTT TTNCAGTGTG GCCACATAT CTTGTAAATN TTTGCTGAAG 120
AGTTGTGTCT ATATATAGAG AAAATATATA TAANCAGAGA AATAAA 166

SEQ ID NO:6377

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07541

SEQUENCE DESCRIPTION:

GATCCAATGC CCTAACTTT ACATAAGAGT TCCGGCAAGG CTGTGACTTC AACTTGTGTT 60

GTAAGTCAA CCTGCAGAA CAAATTTAGG GTTATGTTTT CAGTTGTATC AGTCTTACGG 120
CTACAAGATA TTAAAGAGAT TCTTTCCTGG TTATCAAA 158

SEQ ID NO:6378

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07543

SEQUENCE DESCRIPTION:

GATCTCACCT TGTGTGTCAT CATAGAATTC AACTGGACT AAAACCTTTT AAGTGTAAGG 60
ATTGTGGAAA ATGTTTTAGT CGAAGCTCTC ACCTTTATTC ACATCAAAGA ACCCAGACTG 120
GAGAGAAACC ATATGAGTGT CATGATTGTG GAAAATCTTT CAGCCAGAGT TCTGCCCTTA 180
TTGTGCATCA GAGGATACAC ACTGGNGAGA AACCATATGA NTGCTGTCAG TGTGGGAAAAG 240
CCTTCATCCG GNAGGATTGN CCTCATTANG CACCNGNGAT TTCATGTTNG NGNAGAGGCC 300
TATANTTGTA ATCAATGGTN ANN 323

SEQ ID NO:6379

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07544

SEQUENCE DESCRIPTION:

GATCCTTCTA ATCTCCTGGA CCCTCCAGGG CACTCTGGTC CCTATTCCCC AGCTCCTAGG 60
CAGCTGAGCC GGGTCCCTTA GGGGAGGTGA CCAGGAGCTT TGGTGCAGGG AGCTCTTNGT 120
GGGGCAAAGG GCTGGACCCC TGCCAGGTCT GTGGACATGG TTATATGCCG GGNGAGGGG 180
GGTACAGGGC CCCAGGGATG GCCCCAATC CCACCTCTGT TTATTCTGTA AACTGCAACC 240
TATAAATAAC CTTTAGCATT CCTATTTGTA ACAAATNG NNTTTNTGNA AATAAATTAT 300
ATTCCTAGT CTAAAAA 318

SEQ ID NO:6380

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07545

SEQUENCE DESCRIPTION:

GATCTTCTCT GCCTTTATTG TTTTGCCATT TCACTAAAAT ATGTTTAGAG ATATATAAAT 60
NCTGCTTGGA CTCTAAA 77

SEQ ID NO:6381

LENGTH:32

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07546

SEQUENCE DESCRIPTION:

GATCTCATTT TACAAGAGAA TCTCTCTGCA AA 32

SEQ ID NO:6382
LENGTH:83
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07547
SEQUENCE DESCRIPTION:
GATCTCTAAG TGTAGCTGTA AATTTTGGGG TTAATTGGC TTATATTGGN CCTTTTAAAA 60
GNAATAAAGT TTTTAAATGC AAA 83

SEQ ID NO:6383
LENGTH:74
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07548
SEQUENCE DESCRIPTION:
GATCTATAAA GAAACATAAG CTAAAGTTG TTTATCACTG TGGTGTTAAT AAAACAGTAT 60
TTTCAAAAAA TAA 74

SEQ ID NO:6384
LENGTH:342
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07549
SEQUENCE DESCRIPTION:
GATCCAGACC TCTCTAATAT GAAGAATAAT GAGCCTTATN ACTATAAGTT TGTNAAATGG 60
ATGACTAAAC ATAAGAACT ATCAGCCATC CCCGTTTCAG CATTCTGTAA CTCAGAGACT 120
AAATCACAGT TTGAGAAGTT TGTNCGTTTT TCCTTCATTA AAAAAGACAG CACACTGGAT 180
GCTGCTGAAG AAATCATCAA GGCATGGNGT GTACAGAAGT CTTGATTTGT GCAGAATGGN 240
TTAATGTTTC TGTTAGATGA CCTAGTATGG NATTGTNACT TAGTGCTGCC ACCTGCTGGG 300
ATGTTAANNG ANTGTNGGAT GCGTGGCCTG GCGGTGNNNG CN 342

SEQ ID NO:6385
LENGTH:118
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07550
SEQUENCE DESCRIPTION:
GATCCTGTGT TTTGAGTCCC AAAGGCCATG CCAAGGATTG GCTTTGGNTG GCTTTAATCA 60
CCAACCCATC AACATCAAGC CTCNCCAGG CCGGTTCAAA TAAATGTANT TAAATAAA 118

SEQ ID NO:6386
LENGTH:277
TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS07551

SEQUENCE DESCRIPTION:

GATCCAACAA ATTAACCATA TAAGCACAGA AAATAGAGAA ACACAGTTAT TGAATCTACT 60
CTTGTCATTA ACATTTTCAA AAAACAAAAT GCATATTGTA ATATTGGTA CATGACACTT 120
GCATGTTGNT ATGCCTATAT NCTTGCAAAG NATTCAATGT GTACTTAGCG GCGNTTAAAN 180
CTATGTCATG TACAACTNTT ATAAGCNTTT TTNCNGGGGT CCCATTGCG CTTCATCTTT 240
CAGTAAAGTC TTTGTCAGGN AANNGTTGTN TGTTAN 277

SEQ ID NO:6387

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07552

SEQUENCE DESCRIPTION:

GATCCAGGGA TGGGAATGGG AGTGGGTAGG AGGGGTAATG CGGTCATTGG AGTCGGGGGC 60
TGGAACATTA TGAGTGTCTA ATAAATATAA ACTAATGAGA AA 102

SEQ ID NO:6388

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07553

SEQUENCE DESCRIPTION:

GATCCAGAGG TGGGTGCAGC TGAAAGTAAA CAGAATGGAT TGCCAGTNAC ATGTATGCCT 60
GCGCAGTTCC CTTTTNATTT GCAGAAGCTG TGAGTTTGT NCACAATTAG GTTCCTAGGA 120
GCAAAAAACC TCAAGGATTG ATTTATTGTT TTCAACTCCA AGGCACACTG TTAATAAACG 180
AGCAGGGTGT TTTCTCTCTT CCTNTCTAAT ATATGGAGTT TCGAAGAATA AAATATGTGN 240
GCAATATTTA AATTCTCAGG AATTGNCTNA TACTCTTGNG GAATGGANTT CAGTTTTCAN 300
TCANGNTTTA CATTTNTGGT GGCTTAANAA NCNTTGGN 338

SEQ ID NO:6389

LENGTH:245

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07554

SEQUENCE DESCRIPTION:

GATCAGTCTT TTGAAATTGG GATTCTAAAT TAGAATGAGA GGAGGAGCTG CTAAAGCATA 60
AAAATGGTAG GGGTGATTTT GGTNTTTTAT CCTAGTGACC AATGTTGACC ATTAATTGTA 120
CATTATAAAT AATGTTTCN TCTGGGACTT TTTGCACTTA ANGCTGGTAA TTNTNATCAT 180
AGGGCTTCAA ATACAAAAGA NTTGTATGCG GTNTTCAGAA AATAACATG CTCTTTGCAT 240
ATAAA 245

SEQ ID NO:6390

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07555

SEQUENCE DESCRIPTION:

GATCTTNACG CGNCTGGGGG CGAAGATTTC GCCATGGATG AGGATGGGGA CGAGAGCATT 60
CACAACTGA AAGAAAAAGC GAAGAAACGG AAGGTTCGCG GCTTTGGNTC CGAAGAGGGG 120
TCCCAGCGC GGATGNTGAG GNTTATNACA GCNTGGAGCA GGATGGCGAT GAACCCGGAC 180
CACAACGCTC TTTTGAAGGC TGGATTCTNT TTGTAAGTGG AGTCCATGAG GAAGCCACCG 240
AAGAAGNCAT ACACGTCAA TTCGCAGANT ATGGGGAAT TAAAAACATT CATCTCAACC 300
TNGNCAGGCG TTCCAGGNTA TCTGGAAGGG GGTNTNCTCT NGTCN 345

SEQ ID NO:6391

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07556

SEQUENCE DESCRIPTION:

GATCCCTGC TGGTCTCTGG CAGTCTCCTT GATTTTGGGT ACCATGTATA TTTCCCGCTT 60
TNACTTTAAC GCTTTCTAGG ATAGGGTAAG CACCCTTAAT TCAGGCACCG TCCATNAGCT 120
TCCTTTGCAA AGGCTACTTA TGGCCGGTCA CAATCCAGCA CTCAGACAGA GCCAAGGCAA 180
TATCCTCTTG CCCATGGCTA TNATGTCAGA CAGTGGATGG GCTCCAGCAA CAAGAGTCAA 240
AATAACTAAA GGCCTTTGCT CTCCTCTGAC ATTGAGGCCT GGGGCTTACA GTTTGGAATA 300
CAACATGTGA NGGTTTTTGN TNGTTGTTG TATTATTGNA GAN 343

SEQ ID NO:6392

LENGTH:185

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07557

SEQUENCE DESCRIPTION:

GATCAAAAAT TGTGGCCATC TTTGCAAATN ACTACCTNTA GCCTGTNAAA ATACATTTC A 60
AAAAATGTTA TGTGCAATGA AACTAAATT NAAGAGCAGT TACAGTGTGA CTCATCATG 120
TTTAAAAAAN ATCGAAGAGC TAAAAAATAC GTCTAATTTA TGTAACCCNT TGGNATGTAT 180
TNNTN 185

SEQ ID NO:6393

LENGTH:68

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07558

SEQUENCE DESCRIPTION:

GATCATTTCT TGTAATGTTT TGAGAGTAAT GCATACAGAA ATATAATAAA NTGTGTTGAA 60
ACTGCAAA 68

SEQ ID NO:6394

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07559

SEQUENCE DESCRIPTION:

GATCCCCATT GTGTATGANC TGAACAAGGA GCTGAAGCCC ACCAAGCCCA TGNAGTTCCT 60
GGGTGATGAG GAAACGGTGC GGAAGGCCAT GGAGGCTGTG GCTGCCCAGG GCAAGGCCAA 120
GTNAGGGGTG GGCTTGGGCA ATAAAGGCAC CTCCCCAAC AAA 163

SEQ ID NO:6395

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07560

SEQUENCE DESCRIPTION:

GATCAACTCC CACTCATCCT GCAGATTTAA GCTTGGATGT CACCTCCCGA GGGACGCTGT 60
GCCTGCCTCC CTCGTCAGAG CAGGTGTTGT CATCTACTCA CAGAATCTGG CTTCTTCCA 120
CAAAGCACCC CCGTGAGCAT CTGTTTAAAC TTGTCTCTCC ACCTAGACTG TAAGGTCCGT 180
GAAAGCAGGG ACCACACCCA TTTGTGCTCA CTTGGGACCT ACAGCCTCTA ATCCAGAGCC 240
TGACACAAAC CTCAATAAAT ATTTAAGGAC TGAAA 275

SEQ ID NO:6396

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07561

SEQUENCE DESCRIPTION:

GATCCGGGAC CTTCANACCC AGGGAAAGGG TGAGGGAGAC TGGGGCCTGG TCTGCTTTCC 60
CGGGCCTGAA AGCTTCCCCG AGGTTTGCAG GGTGAGGAG GAGGAACGGT GGGGGNNGGC 120
AGTCACTGNN N 131

SEQ ID NO:6397

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07562

SEQUENCE DESCRIPTION:

GATCCATTTA AAACAAGCTG ATAGTGTTC GTTAAGCAGT ACATCTTGTG CATGCAAAAA 60
TGAATTCACC CCTCCACCT CTTTCTTCAA TTAATGGAAA ACTGTTAAGG GAAGCTGATA 120
CAGAGAGACA ACTTGCTCCT TTCCATCAGC TTTATAATAA NCTGTTTAAAC GTGAGGTTTC 180
AGTAGCTCCT TGGTTTTGCC TCTTTAAATT ATGACGTGCA CAAACCTTCT TTTCANTGCA 240
ATGCATCTGG NAGTTTTGAT ACTTGTAAC TTTTTTTTTT TTNGGGGNNN ANTNTTNNG 300
GGNCCAGGGG TTTTTTTTNG GAACCCCTTG GGCNNTGGCC CNGGGGTACC CGGCNAGNN 359

SEQ ID NO:6398

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07563

SEQUENCE DESCRIPTION:

GATCTCTGAC GATACCTGTA TGTTCCTATT GTGTAAATAA AATTNCTGGT ATGAAATNAA 60
A 61

SEQ ID NO:6399

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07564

SEQUENCE DESCRIPTION:

GATCCTGTGG GAAAGAGAAA GGCATCCCAG AAGTTTGACT TGTTTTNCTT TTAGAATCTG 60
TCTCTGCAGG AAAGAAAAGT CATTTTAATA AAAACCAAAA TAATTTATAA TAATTGTNGC 120
CTTCCCTCC CCATCCTCTC CACTAAGCCA GCAACTAAAT GTATTCAGAA AACAAGTTAA 180
TCAAGGAGGG CAGAAGAATT TTTTAAAC TGTAAGAAAN TGTTCCTAAG TTTAGATTTA 240
TTACCTGTCA TTTAGGGCAA AANTCCAGTG TCCCCAGCAC ATGGTGACCC AACTNTGTCT 300
CACAGTTGCA AAGTGTGTTG GAAAATAAAG TTGCTTTGTG NACTTNGNGG GNAANNCNNT 360
NANNNNN 367

SEQ ID NO:6400

LENGTH:379

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07565

SEQUENCE DESCRIPTION:

GATCAGGAAC CAAAAAGAAG AATGTACTTC ATCTGGTTGG GCTGGATTCC CTCTNATAAG 60
CCTTCCCAGT TGAAGTGAAG ATGAGGCTAG GCTCTAGCAA GTTGAAGTCA AACCAGCTCC 120
TTCAAGAAGC TTTGAGCAGA ATGAAGTGGG GAGGACCCAG CTTCCAGCCC AGGAAGCCCA 180
CTGTACCTGG AGCCATCTGG GATAAGACTT TGACCCATGA CTCCCATATC CACAGCCTGT 240
CCATCCTAGC CCATCCCAGT TTATCCTGTA TCATTGAGC TGGGNTTCCA CATCCTCTGA 300
GTTGGTAGTC CCATNTCAAG TCNTTNAATA AANGNCTNTT TGGANTATTT GANTTCACAT 360
TAAAAAANA ANAAAGGCN 379

SEQ ID NO:6401

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07567

SEQUENCE DESCRIPTION:

GATCGGGGTA TGAAGTGTGC ACACGCAGCC CAACAACGGG CAGTGGTCTC TGTGCTCCTA 60
GGCATCCAGC ACAGTTCTG GCAGGGCACC CCTGCTGGGG TTGGGGGCTG GTCTGTGCAT 120
AATCCTGGAC TGTGATGGGA ACAGCCAGT GCAGTCTAAA CTTCAATTGT GTTGAAACTA 180
CTTTAATAGA CAAAGTAATA AATCATGTTT ATCTATTGAT TAAA 225

SEQ ID NO:6402
LENGTH:60
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07568
SEQUENCE DESCRIPTION:
GATCTTCAGT TGTATTTTNG TGAATATTTT AATACATCTT TTTCAATTTC TGAAAACAAA 60

SEQ ID NO:6403
LENGTH:176
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07569
SEQUENCE DESCRIPTION:
GATCCGGTGC TACGGGAAAC ATTTTCCTAA GATGCCCATG AGAACAGACC AAGATGTGTA 60
CAGCACTATG AGCATTAAAA AACCTTCCAG AATCAATAAT CCGTGGCAAC ATATCTCTGT 120
AAAANCAAAC ACTGTAAC TN CTAAATAAAT GTTTAGTCTT CCCTGTAACC TTCAA 176

SEQ ID NO:6404
LENGTH:360
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07570
SEQUENCE DESCRIPTION:
GATCTTCCCT GCGGCCTCTG CCCTGGCCTG CTTCCCAGCA CACACTTCTT TGGCCTAAGG 60
GCTTCTCTCT CAGGACCTCT AATTGACCA CAACCAACCT GGGCTTCAGC CACATCAGTG 120
GGCACTGGAG CTGGGGTGCA CATGGGGCCT GCTCACCTTG CCCACACATC TCCAGCCAGC 180
CAGGGCCCTG CCCAGCTTCA ATTTACAGAC CTGACTCTCC TCACCTTCCC CCCTGCTGTC 240
CAGAGCTGAA CATAGACTTG CACTTGGATG TCACCTGGAG TGTNACATGG GAGTGTTATG 300
GCAGCATCAT ACCAAGGCCT ACTGTTGCAC ATGGGGCCAA AACCAGTAAA CAGCCACCTN 360

SEQ ID NO:6405
LENGTH:32
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07571
SEQUENCE DESCRIPTION:
GATCTNACTA ATAAATGAAG GGAAAAAGGA AA 32

SEQ ID NO:6406
LENGTH:219
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07572

SEQUENCE DESCRIPTION:

GATCTGGTCA TTTAAAAGTG TGTGGCACCT CCCCACCACC TCTNTCTCTC GCTCGCTTGC 60
 TCGCTCCTGC TTTNACCATG TNATGTGCCT GCTCCCCCTT TGCCTTCCGC CATGATTGTA 120
 NGCTTCCTGA GGCTTCCCTA GAAGCAGATG TCAGCATTAT GCTTCCTNTA CAGTCTGCAG 180
 AACTGTGAGC CAATNAACT TCTTTCCTTA TAANTTAAA 219

SEQ ID NO:6407

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07573

SEQUENCE DESCRIPTION:

GATCCAGTTA CATGTATTAT NNTTTCCTA CCTTATGGAC TATTTTGGAG GGATAAGCTA 60
 TTAAGACTAA GACTATGNGT GANAGTNGGG GAAGGAGCAG GAAGGGAGGA ACCTGCACAC 120
 CACATTGGAA CCNGCACACC ACATTAAACAC AAAGGCAATC TTCTGGCTCG GACTGTTCTT 180
 TACTACTGTN CTAAAGAAA ATGTTTCATC TGCTGCAGCT ANCTAGCCTC CATCTNCTAC 240
 ACCAAATACT ATTCCATGCC ATGGAAGTGC TATGCAATAA CTNTCCCAGG TAGGCACCTT 300
 ATACCCGCTT AAANAGNCTT TAAANATNTG CANTTTTGGT NGGNGTN 347

SEQ ID NO:6408

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07574

SEQUENCE DESCRIPTION:

GATCACTCCT TATTTGCTGT TATTTTNGTN CTCTTAACCA TACATTTCCC AATGTTTAAA 60
 GGGTGGTATT TNGAGAAAGT NAATGGGTTT TGTAAGTGCC AGCNCTTTAT ATAAGCAGGT 120
 AGACTAGCTT TTNCCCAGCA GACGCTTGTC TGTNTAGACT TCCTTAAAN AATTATCTTC 180
 AAATAAAGCA AAATCTCCAT AAAANGNN 208

SEQ ID NO:6409

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07575

SEQUENCE DESCRIPTION:

GATCCATAGA CTTAGCAAGT CTTGCCTTAT CTATGGAGCT CGATGGTGAG AATTGTNACC 60
 ATTGTCTGAT GTCCATAGTT CCTTCCCCCT AGATTGTTTC TTTCCACGGA TTGTGTTTCAT 120
 CTGAACCATT NNATTTTAA TTTACCAAAG TACTGTACTT GGCTATTTGC AGTGTTTTCA 180
 AAACCAAATG TTTCTNTTTT GGTGTTTTTA ATCTCCGATA CTTGGTGCAA TAGAAGCTGC 240
 AAAGATGTGC CACTTNATCT ATGAAATGGA GTNTTGATA CCAATAAATN CTAGTTTAAA 300
 AACANTTNAN NANNNANN 318

SEQ ID NO:6410

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07576

SEQUENCE DESCRIPTION:

GATCTGTAA GGGGTGGATA ACATAATATG CAGCTTAGGA TGCTATTTTA AGATGTATGA 60
TATTCAGTTC ATTCACCTGA TTACTTTGGT TGCAGCACAA CTGTATATAT NGTATAACCG 120
AAATTGATTA TTTNCATTGT CCTTAATGCA GTGATTATA ATTNGAGCAT GTTTAATAAG 180
TTTNCCTCTC TNGTTAACTA GTCATTGAC TGGNAANNNA TAANATNCTT TTN 233

SEQ ID NO:6411

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07577

SEQUENCE DESCRIPTION:

GATCCCACGA GGACCACTNT GTAATTGNCA GGGGGCTTCC AGNNAAGACA CTGAACCCTG 60
AAGCCGTGGT CTGGGGCAGG GTGGTGGGAG AGGTGGGCGG GGGNN 105

SEQ ID NO:6412

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07578

SEQUENCE DESCRIPTION:

GATCACCTTC CCACTTCATC CATCCCCACC CTTCCAGCTC CCCATCCATC CTGCTGAAAG 60
CATTTCCACC ACTCAATAAA ACCTCGCATT CATCCTTCAA A 101

SEQ ID NO:6413

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07579

SEQUENCE DESCRIPTION:

GATCAGAAGG AATCCGNCGA GGCAGGGATG GGTGTGCCCA TGTNTGCCTT GACGGGACTT 60
CATCTTATAG ACTGTAAAC TGTCACACAC AAACAGGCTT TCCACCCCTG CTCTGNGNGC 120
ACCACGCACA GNTTCCAGT TCTTAGTGTG GCTGTTTAAA GTAGAAAATC TGGGGGCTGG 180
GTGAGGCCAC TCATGCCTGT AACCCAGGGC TTTAGAAGGC TGAGGCTGGG GGGNTTGT 240
GAAGGTCAGG AGGTTCAAGG CCAACCTTG GGAACCATAG GCAACNACCC CCCATNNTNT 300
NCCAAANTNG AAAAAACCA AAAGGNAAC CN 332

SEQ ID NO:6414

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07580

01864

SEQUENCE DESCRIPTION:

GATCTACCAG CATAAATATC TNCTNATTTG TCCCTATGCA TATCANTTGA GCTTCATATA 60
 CCAGCAATAT ATCTNAAGAG CTATTATATA AAACCCCCAA ACTNTTGATT ATTAGCCAGG 120
 TAATGTGNN 129

SEQ ID NO:6415

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07581

SEQUENCE DESCRIPTION:

GATCTAGAGG AATTAGTCAT GACATCAAGA AAGGAGTCTA AAGAAGAGAA AGAAAATCAA 60
 GATGAAAGAG AAGTAAAAGA AGANGAACAA GAAGAAGAAG AAGAAGTCAG GTCAGCAGAA 120
 ANTTCTCAA ANTCTCCAAA GAAAGGTCAC TGATTCCAAG GCANCCTGTG GNAAGANGAN 180
 TTCAGATGTC AGTGGGAGCC TCCAGGTGGG NGNGAGCAT GCCTAANCCC TGGTGGCCAT 240
 TGTNCTGTAC TANGGAN 257

SEQ ID NO:6416

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07582

SEQUENCE DESCRIPTION:

GATCCACAAG GCTTCTGTAT ACAGTTCACG GTCCTCGGCA TTGCTTCTNG TAATTTTNCC 60
 ATCCCAAAGG AGAGCTACTG TACTGACTGT ACTTGTGGAA TNCAGCGCTT CATTAAATTA 120
 AGTTTATTAA AATGCAAA 138

SEQ ID NO:6417

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07583

SEQUENCE DESCRIPTION:

GATCTAATGG GACACGGCCA GTGCCTAGGG GTGCCAAGTC CAAGGCCTCC CACTGGGNGT 60
 AATCGCTGAG AAGATGCCAA TTTTTCATCC ACCGGCTGCA CAGGCACAAA CTCCCCACC 120
 CAGGACGGCT GTNATGAGGT GGCCCTCCCT NTNAACCCTG GTCCCTGGAG TCCCCAGCAC 180
 CTGGGGCCCT GGTGGGGCTG ATGTCACAGG TGTTTACTGT GCTGCTGCAC TGGTCCTATG 240
 NCAGCTTCAC CCCATGTGGG GACCACGGAA GGNACAATNC CTTACCCCCG NTTGCCGGGN 300
 CCGTGCGGTN NNCAAGANGG GNCAAGGANG N 331

SEQ ID NO:6418

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07584

SEQUENCE DESCRIPTION:

GATCCAGCTT ATCCTTTAAT TTCAAAGTCC ATTCTTGGGG CTGGTGGGGA GGCAGGAGAA 60
TACCCCTCCC TAAGCCCTTA GTGTGTGCCG AGCTTGCTTT GTNATGTTGG CAGGGGAGGG 120
GAGACCTGGG TGGTGACTGA GTTCCCTTTA TCAAACCCTT CAATGGGCAC AAAATTNAGT 180
GCTTGATTTT ANGGTTTAT TTTTATGTA ATGTCCAAAA TCTGTGTTTC CCCNNTGCCC 240
TCCAAGANN TGTGTGGGCC AGTTGAAAGT GTCTTGGTTT TGTTGGTCAT CTTTCCCTN 300
AATTTCTGGA GCANGGNCCC TGAGNNCCNT GCCANAN 337

SEQ ID NO:6419

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07585

SEQUENCE DESCRIPTION:

GATCATGGAT GTAGCATACA CAAAATCCA CCGAGACCTT TGCAAAATNA GGCTACTTGT 60
TTNATTTTGC CAGATTATCA TGGGAGAGTC TTTAACTAGT NCTGAATATT TGTAAGTCTG 120
AGTACTTCAT AGAATTATAA AGAAGGTACA GCTGACCCCT TCTCACCATG TNGTAAATAT 180
TTCCTGAGAC TGGGTGCAGT ACTGAGGGAT AATAATCTCC TGNTTTATCA AATCCTGACT 240
GTCTAGAGCA ANTTGTACAC TCTCTTTGTG AATGGTCTG TAACGTGTAT GNNCACATTT 300
NTGGGTGCCT TAGANGTNGT NTTTTNCATG TGTGCTAATN TGCAGTTTCN 350

SEQ ID NO:6420

LENGTH:362

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07586

SEQUENCE DESCRIPTION:

GATCCAGGGT CTNAACCGCC GTGGGACGAG GAGGGCATCC CGGCCACAGC AGGGGCCGAG 60
GAAGAGGAGG AGACAGAGGG GAAAGGGGAG CCGGCCTGAC CCACACCCCC GGCCATCGCT 120
CCCTGGGCCA GGTTTAGAGC AGGGAGTTTG GCTGGTGTG GGCCTGAGCC AGGGGGCCGG 180
GACACCCTTG TTTCCGGTGG TCTTCCCGTT GTGGGAGCAG GTNGAGGGTG GAGACCTAAA 240
CTTTGGGGTC CAGCTGCCTT CAGCCCNCT CCNCCAGACT AACAGACCCT TGGAGGCAGG 300
GGCTGTGGAA ATAAATCTTT GCCTGNTGGG NTAAAAAAA ANTATNANNT GTGNNNGTT 360
GN 362

SEQ ID NO:6421

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07587

SEQUENCE DESCRIPTION:

GATCTNCTCT CCCACCCACA CTTATCTCCC CCAGGGCCAC TCCAAAGTCT ATACACAGGG 60
GTGGTCTCTT CAATAAAGAA GTGTTGATTA GACCTGAATT TCTCCACCTA TAAA 114

SEQ ID NO:6422

LENGTH:62
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07588
SEQUENCE DESCRIPTION:
GATCTTTGCT ACTGGAGTCC TTAAACAACA CCTATAACGA TAAAAAATTC CTAATTNTTA 60
AA 62

SEQ ID NO:6423
LENGTH:96
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07589
SEQUENCE DESCRIPTION:
GATCCTTCAT ATTTAATTAA AAGTGTTTAT TCAGGTAAGG TGTATGTTGA AATTTTNCCA 60
ATNATCTTAA TAAAACCTGG CAATTTAAAA NCCAAA 96

SEQ ID NO:6424
LENGTH:88
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07590
SEQUENCE DESCRIPTION:
GATCTATTTA TNTAAGTATG TAGTAAACAA TATCTNAAAG TGTCCGATTC ACTACTTGTA 60
AATTAACAAA GTNATGATTA ATGTGAAA 88

SEQ ID NO:6425
LENGTH:314
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07591
SEQUENCE DESCRIPTION:
GATCAGAAGA AGCTACAGTT TTNTTTTAAA CTTGAAAAAA AATTAAGAAG TATTAAGGAA 60
AAAGCTTAAT ACTCTGGAAA CCAGACATCT GGTCTTTCTC ATGCGTAGGG AGCAGTGTA 120
ATGAAAGTGA AGTCAAACGG ACAGTTTTTT NCTGCATTAT GCACAAGGTG TTTTAAATTG 180
TCAGCTTAAG GTTTAGATGA NGATAATCTT TAACTTTGTT TACAATTTTG NCTATTTNGC 240
ATTATCCCCC TTTTNCCATA AAANNTAANG TGAATATGTG TGCATATNNN TNTNGAGTCA 300
NAATTAACT TATN 314

SEQ ID NO:6426
LENGTH:91
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07592
SEQUENCE DESCRIPTION:

01867

GATCCTGTGG TGTGTATAA AAATGAACAG CTAAAAATT ACCCATGACA AGATTAAAGC 60
AAAAATAAAC ACAAAGTTGT TAGACTTTAA A 91

SEQ ID NO:6427

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07593

SEQUENCE DESCRIPTION:

GATCTTGTGC TATACTTTT AAAGCCATAC AAATAAGAGT GCTAACTNT GGACTTAAAA 60
GTAGGTGTNT AAATATTTT AATCAGTATT ACTTGAAAA TAAATATAA CAAACCCATA 120
AA 122

SEQ ID NO:6428

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07594

SEQUENCE DESCRIPTION:

GATCCTAACC CCTGCAGGGC TCAGGGGTCA GCAGGGACCC ACTGCCCCAT CTCCTCTCC 60
CCACCAAGAC AGCCCCAGAA GGAGCAGCCA GCTGGNATGG GAACCCAAGG CTGTCCACAT 120
CTGGCTTTTG TGGGACTCAG AAAGGGAAGC AGAACTGAGG GCTGGGATAT TCCTCATGGT 180
GGCAGCGCTC ATAGCGAAAG CCTACTGTAA TATGCACCCA TCTNATCCAC GTAGTAAAGT 240
GAACTTAAAA ATTCAATCAA ATGAACAATT AAATAAACAC CTGTGTGTTT AAA 293

SEQ ID NO:6429

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07595

SEQUENCE DESCRIPTION:

GATCTGAATT TGTAAGTTAT TAATGTGAAA GGGGGAGCAG GAAGCTCCCC GTTGCACAA 60
AGGGGGATTT GTTGCACAA AGTTCACTGT AAATACTGTG AGANTNGANT TCTGAAAAGG 120
TCATATTTAG TGATTTCAA AGCACACATT TAANTGANGA CTGACTAAAT AANAGGTACC 180
ACACACTTCT NGGTTGGTTT CATTCCAAA 209

SEQ ID NO:6430

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07596

SEQUENCE DESCRIPTION:

GATCTCCCTC AGTNTGCCCC CAGCCCCCAA ACTCCTCCTG GCTAGACTGT AGGAAGGGAC 60
TTTTGTTTGT TTGTTTGT CAGGAAAAA GAAAGGGAGA GAGAGGAAAA TAGAGGGTTG 120
TCCACTCCTC ACATTCCACG ACCCAGGCCT GCACCCACC CNCACTCCC AGCCCCGGAA 180

TAAAACCATT TTCCTGCAAA

200

SEQ ID NO:6431

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07597

SEQUENCE DESCRIPTION:

GATCTNATTC CAGGATTGCT CAGAAATTGG AAAAAAATC ACCTGTGCTT CCCAAATTTA 60
TTTCCCAAGA CAAAGATGTC TATAGCACAG AAAAAAATGC ATGANTTAAA AAATCAAGAT 120
GTATTATTAA A 131

SEQ ID NO:6432

LENGTH:42

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07598

SEQUENCE DESCRIPTION:

GATCCTGAGC TGTCCCATTA AACATGGCCC TGTCTCGGTA AA 42

SEQ ID NO:6433

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07599

SEQUENCE DESCRIPTION:

GATCCACTAG ACAGTTTNCA GTTTGCTTGG AGGTANCTGG GTAATCAAAA ATGTTTAGTC 60
ATTGATTCAA TGTGAACGAT TACGGTCTTT ATGACCAAGA GTCTGAAAAT CTTTTTGTTA 120
TGCTGTTTAG TATTCGTTTG ATATTGTNAC TTTTCACCTG TTGAGCCCAA ATNCAGGATT 180
GGTTCAGTGG CAGCAATGAA GTTGCCATTT AAATTTGTTC ATAGCCTACA TCACCAAGGT 240
CTCTGTGTCA AACCTGTGGC CACTCTATAT GCACTTNGGT TTACTCCTTT ATTNCAAATA 300
ANTATACTAA AAGNCTTTAA ANNANGNNNA NN 332

SEQ ID NO:6434

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07600

SEQUENCE DESCRIPTION:

GATCAATACG GGTCTATTTT NATGTCAACT GAACACTGTA GGGTACCTTC CAGTCTTTTT 60
CAAGATTGTN AAATTGAGAC AAGTAATTGA ATAATTTGTC CTATTTTAAT TTTAAAAAAA 120
GTGAATGGNC TGAAATGTTA AATGTGAATG TNCATTTCTN AATTGCAACT TTNCTACTGA 180
GTGTTTGCAC TATACTTNCT GGAATCTNAT TTAACAAANN TANN 224

SEQ ID NO:6435

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07601

SEQUENCE DESCRIPTION:

GATCAAAAAG CACAAAGAGC TGGGGCAGAG GCAGGAAGCA GGGGCCCTCC TGGCAGCTCC 60
TCTNAGTGGG GAGAGGTTGG GCAGTGAGTG AGGGACCCCT AATGCAGGGN CTAGAAGCCT 120
CANTTTCCCC NTTTTACCCT TCCACACAAT AGCCTCTGTA GGNNAGGCTG CCCCATNCCA 180
CCNGGNTN 188

SEQ ID NO:6436

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07602

SEQUENCE DESCRIPTION:

GATCTAGGAC TAANACTTAA AATGTGGTTG GAATCTCACT CAAGGCCTAC CCACCTAAAA 60
CTGCGTTCTA GCAATTGCAT GCTGACTGCA CCTATGAGTC GTAAGNCTGT AGTTGCAAAG 120
TGTGTCTAGT TTNANATTCT TTCTAAATAC TGGTACGGGN AACAGGCATT CCAGNACTTG 180
TGGCTTGCTG GNGGTGGTNT GAGTNATGNG GAATCTTGGG AAGGGGTTCC TGCCCTGGG 240
ANTTGGGGGG TTTTNN 256

SEQ ID NO:6437

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07603

SEQUENCE DESCRIPTION:

GATCCAGGGC CTTTNAACA TCCCCAAAGT CATGGCCATA CTCACCATTA GCCAGTTTCT 60
AACATCTGTT TCAGGTATC CAGCTGTAGA TGTTCTTATC CCCCATACTT GTGAGTTCTT 120
GGGGTTGCTC ACAAATACTA GGGGTTTTTG TTGTATTTT AACAANTATA TCCTAATGTC 180
ATATTNATNC TCTTTTGTA CTGCTGGTCT TTACANTAAA GGNGTCATCT GCCTTTCAAA 240

SEQ ID NO:6438

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07604

SEQUENCE DESCRIPTION:

GATCAGCACC CTTCTCCACA TCCACATGAC TGGTTTTTAA TGTAGCACTG TGGTATACAT 60
GCAAACATCC GTTCAAAATC TGAGTCGGAG CTAATAATAA AAAATGAAAA ANCAGAAATA 120
AGAAA 125

SEQ ID NO:6439

LENGTH:321

01870

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07605

SEQUENCE DESCRIPTION:

GATCCGCCTG CNTCGGCCTN CCAGAGTGCT GGGATAAAAG GTGTGAGCCA CTGTGCCTGG 60
CCACTCCCTT GAGACCCAGT TTCCACGTCT GTNAAATGGG GGAATACCCA CAGTGAGAAT 120
TAGATGAGAT AGATGCATT NAAACCACAA ATCGGGGTGC CCACCTGTGG TGGGTAGTTA 180
GGGTAGCTGT TACAAAGTGC CCCAGCAGAG ACCCCCTTGA CTAAC TTNA TTCTTCCATC 240
TTTTCCACA GGTGGCAGCT GCCAACAAGA AGCATTAGAA CAAACCATGC TGGGTTAATA 300
AATTGCCTCA TTCGGTANTG N 321

SEQ ID NO:6440

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07606

SEQUENCE DESCRIPTION:

GATCTTTGTC CAGAAAATAA AGCTTTCTGT TGATTTTTTC TTTAAGCAAG AGGTAAGGAA 60
ATATGCACTT AAGANTATGT GTACAAGAAA ATAGTTTCTA AAATAAATG AAATGTCTGC 120
AAA 123

SEQ ID NO:6441

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07607

SEQUENCE DESCRIPTION:

GATCCACTCT GGACACTCAA CAAGACCTGA ACAGGATTTN CCTACCTGGT CCTTACACTA 60
CATCATCATC ATCTCATGCC CACCTGCCCCA CACCCAGCAG AGCTTCTCAG TGGGCACAGT 120
CTCTTACTCC CATTTNTGCT GCCTTTGGNC CTGCCTGGCC CAGCCTGCAC CCCTGTGGGG 180
TGGAAATGTA CTGCAGGCTC TGGGTCAGGT TCTGCTCCTT TATGGGACCC GACATTTTTN 240
AGCTCTTTGC TATTGAAATA ATAAACCACC CTGTTCTGTG GAAA 284

SEQ ID NO:6442

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07608

SEQUENCE DESCRIPTION:

GATCTGGTAC GNGGTGGACG TCATGGCCCG ANATGCCAC GGNAACACAG CGCTGACCTA 60
CGACCGGCAG GCCTCCAGCC ATGGAGTGCA TCAACGTGCT TCTNCAGTAC GGCTGCCCCG 120
ACGNGTGTGT ATAGTATCTG TTTTATTTGA CTGCAGTCTC CTTGGTGCAA AANCAAANTG 180
GGGAANTTAA GGATAACTCA GNATTTCAAA AGGAN 215

SEQ ID NO:6443

01871

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07609

SEQUENCE DESCRIPTION:

GATCTNAGAC TTCTCACGTC CAGAACTGTA AGCAATAAAT GTCTGTTGTT TATAAATTAA 60
A 61

SEQ ID NO:6444

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07610

SEQUENCE DESCRIPTION:

GATCCTTGCT CTACCTGGCT AGAGTTTCTN CTCATCAGAG CACTGGGACA TTAAACCAAC 60
CTTTTACAAC ACAA 75

SEQ ID NO:6445

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07611

SEQUENCE DESCRIPTION:

GATCTCAGCT CAGAGAGAGA GCATGAGGTC TTTTAACT GTCAGGAAAC AGAGCTGTGC 60
CCAATTCAC TCACTTTTG GCACAACTGT TAATCTGGGC CTTACCTAC CTTAACTGA 120
GTTTCTGCAA GCATAGCATT TTAGACACCC TGGAATAACC TTTTGGGAAT GATGCCACAG 180
AATAAGTTC ACTCTTAACT TTTCAA 207

SEQ ID NO:6446

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07612

SEQUENCE DESCRIPTION:

GATCTGATAG TGGTAGGTCT ATCAGGAATA TCAGGNAAAA TNCTTTTAAT GTTGTTGGCA 60
AAGTCAATTC CTATCATTTG TACTTGACAC CAGCTACCTA GCAGGCTCAT TGTGAACTTC 120
AGGTTTCGCC CACGTTATTT ATATAAAGTA TCTCAGTGTA ATATAGGGAG TTGCTGGTTA 180
TTTGAAAATA GTAACAAAGG TAACCCAAAC GAGAACTCC ATTTCCATAA TTNGCTTTCC 240
TGAAAGTCAG GCATGTCTTT GAGGACAGGT TTTGGCAGTA TTNNNTNGT GCACAGGNGG 300
GAAATTN 307

SEQ ID NO:6447

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

01872

CLONE:HUMGS07613

SEQUENCE DESCRIPTION:

GATCTGCCTG TTTATTTTGG TGGGTGGTCT TTCCTCCCTC CCCTACCACC CATGCCCCCC 60
TTCTNAGTCT GCCCCTGGCC TCCAGCCCCT AGGGGACTAG CTGGGTGGG GTTCCTCGGG 120
CCTTTTCTCT CCTNCCTCTT TTCTTTCTGT TGATTGTCGC TCCAGCTGGC TGTATTGCTT 180
TTNAATATTG CACCGAAGTT TTNAAATAA AATTTTAAA 219

SEQ ID NO:6448

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07614

SEQUENCE DESCRIPTION:

GATCTGGTGT AGTATATTTT ATCGCATTTT CTTATATTAA AAAATGTCTG CATGATTACA 60
TTTTATTTC TTTGTAATTT ACATTTCAGA ATAGTGTATT GCTATATGGG TGCCAAGATT 120
GANTATGAAG AACCCGAGTN TTTGTAGTAT TATAGTTTAA AGCAAATCTG TGTGGTGATA 180
CAGCCATAAG ANTGGGGCTT ATATAANCTC TGTACATGTA AGATTTTGTA CAGAGAATTT 240
TTAACTTTAT AAATTGTATA TGANCATGTA NN 272

SEQ ID NO:6449

LENGTH:300

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07615

SEQUENCE DESCRIPTION:

GATCCACCCG CCTCAGCCTC TGAAATTGTT GGGATTACGG GCGTGACACN CGCGCCTGGC 60
ATGTATATCA TTTTNNATTG TGTATTTTGT AATTTTGTG TGTNAATTTA TTTTAAATAT 120
AGTTTTCAAT TTAAC TTGTT AGTTTCTGTA GTGGCAAATC CTTGTGTTTG CAATATTGGA 180
TTATTTCTCC ATAAGAGTTT CACATTTCTC CTGCTAGGAA ATCCATGGGG AATATTGGAA 240
TTGGGCTAGT TTTAATNNNA TNNCTAATGT TTAANGGTC TGAAAAANAT TGGCGNCAAA 300

SEQ ID NO:6450

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07616

SEQUENCE DESCRIPTION:

GATCTCCACT TTNCCAAAGG GCTGCNAGAG GTGATTGANA AGAACCGGCC TGCTGATGTN 60
AGGGCGTCCA CTGCCCCCAC ACCGTCCACA GCAGCTGTCT GAGCCCTCAA TCCCCAAGCT 120
GGCAGCTGTC ATTCAGGACC CCAACCCCTC TNAGCCCCTC TTTTCCCACA TTCATAGCCT 180
GTAGTGCCCC CTCTAACCCC CAGTGCCACA GAGAAGACGG GATTTGAAGC TGTACCCAAT 240
TTAATTCCAT AATCAATCTA TCAATTACAG TCCGTCCACC ACCAAA 286

SEQ ID NO:6451

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07617

SEQUENCE DESCRIPTION:

GATCTGTGCA GAGAGAGATG GCAGCCACTC CCTTCAGTCC TCCCAGATTT CTGTAGCTAT 60
TTATGTAGCA GGCTCAATAA AATGTCTTCT CTCTAAA 97

SEQ ID NO:6452

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07619

SEQUENCE DESCRIPTION:

GATCNNAGGC ATNNTTCTT CAGTCAGAGC ATTCAATCCT CAAGCCATTC ACACATTTAG 60
GCCTCATGCT TTNTCCTGTC TTTAATCACA TCCATTTCTT AACTCATTG AGN 113

SEQ ID NO:6453

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07620

SEQUENCE DESCRIPTION:

GATCATAAGT CATTCCCCTC CCCTTCCAGG CCTCCTGCTA TATTTGGGGG ACCTGACTNG 60
NTTNGCTGGA GTCCCATGAG GATGTGGGCC CNTTAATAAN GGATAGCAAA CAGGCAAA 118

SEQ ID NO:6454

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07621

SEQUENCE DESCRIPTION:

GATCCCAAAA TCCAAGGATG CTTCGAATCC CTTATATAAA ATGGCATGGT ATTTGCATAT 60
AACCTACATG CATCTTCAAA TATGTAAAC CATCTCTAGA TTAATTATAA TACCAAATAC 120
AATGTAATGC TATGTAAACA GTTGTTACAA TGGATTGTCA AAGGCAAGCT CTNCTTGCCC 180
ANTNCGGGCC AANTGNNGG TNCATGAGCA AATTAANTNN NTGCTGGTAT TTN 233

SEQ ID NO:6455

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07622

SEQUENCE DESCRIPTION:

GATCCGAATT TCCTGCTCTA AACCTCCAC TGCTTTCTGC TGTTTCCACT GAGGAAAGAG 60
GATGTGTGTC ATTAAGCTT TGTTGGGACC TGTCACAGTC AAGGTGGGTA TAATTATGTT 120
TAATTTATTG AAGTGTCTTCT GGGCATCGTC TTTTCAAAT TCATATATNC TATCCAGAAG 180

ANGTGNATTC ATTNNNCATT ATNAAAAAAN ATAAAAATATT ACCAGATAAA GCTCANCACT 240
NCNCTCTNCC CCN 253

SEQ ID NO:6456

LENGTH:44

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07623

SEQUENCE DESCRIPTION:

GATCTTTCCT ATCAGTGTA TAAAAACTCA TATTATGGCA GAAA 44

SEQ ID NO:6457

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07624

SEQUENCE DESCRIPTION:

GATCAGGCAG GGTGCCATTN ATTGTCTTTC TCTCCTAGCC CCCTCAGGAA AGAAGGACTA 60
TATTTGTACT GTACCCTAGG GGTTCCTGGAA GGGAAAAACAT GGAATCAGGA TTCTATAGAC 120
TGATAGGCC TATCCACAAG GGCCATGACT GGGAAAAGGT ATGGNAGCAG AAGGAGAATT 180
GGGATTTNAG GGTGCAGCTA CGCTCACCCCT AAACCTTTTG TGGCCTGGGG TATGTCTTGA 240
GGCCCAGACT GTTAAGCAGG CTCTGCTGGC CTGTTTACTC GTCACCACCT CTGCACCTGC 300
TGTCTTGAGA CTCCATCCGN 320

SEQ ID NO:6458

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07625

SEQUENCE DESCRIPTION:

GATCCAAATN AGAACAGATT GGTTATTGCA GGTATCACAG CCTAAAGAAA TTATCTTTTT 60
GCAAAAGAAA TATTAATGA TTTAGCAGTC TCCACGTGTG TTAATGTTTC AACGTGTAT 120
CATAATGTGT ATAATTGTGT AACAAAATTG TCTACAATAA ATCTNTTGGT ATTTGTAAA 179

SEQ ID NO:6459

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07626

SEQUENCE DESCRIPTION:

GATCCATTCG CCCCAAGGGG ACAACGGGGT GTNAGNGGAG TAAGGGGTGG AGGTAGGGGC 60
CAGAGGGGCT TACACGATAT CCCATACCTT TAATGCCTTT GGCCTTCCAT TCTNATTTCN 120
CTNATGAGAA TATTGCTGGC CCTGCTTCC CTGGTAGGTA TTTGCCAGGC CCAATGCTTT 180
AACCTTAAGC TGATACTTTG CTTTAGATGT CAGTCTCGTT ACCAGCAGCC TTTTGACCCA 240
ACTACGGCGC TCTATATTTA AGTNGAGGGA TTTTNANCCA TTGTGCATGG NAAAAAGNTG 300

TTCATGGGTA CNATNGTAAG NAAANNTAAA ANTTTTN

337

SEQ ID NO:6460

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07627

SEQUENCE DESCRIPTION:

GATCGGTTGN GNCATGGAGT GGGGGCTTCC AGGTGGACCT NCCCGGCACA CATTCCATTT 60

NTTGAGCCCC AGTCCTGCCC CCCACCCNAC CCTCCCTACC N 101

SEQ ID NO:6461

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07628

SEQUENCE DESCRIPTION:

GATCCTTCTT GGTTAGTATT ACTTGTNCCG GAGCAATTCT NATTCCTCGT TTAGACATTG 60

NNATTTCCTT CGTTGGAGCT GTGAGCAGCA GCACATTGGC CCTAATCCTG CCACCTTTGG 120

TNGAAATNCT TACATTTN 138

SEQ ID NO:6462

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07629

SEQUENCE DESCRIPTION:

GATCTNATTA GNNTAGTAAT GTTTTCCCTT TAAACAGATT CATCATTATC CCTAAAGTAT 60

TGCTGTATTA ATACTGTCTT CTAGAAAGTA TACACCAGTN CCTACTTTCC TCCGATATCA 120

TTAGCTGTTT TCNGAAACTN AATTTCTCT TCAGAGATTN CTCATATGTN TN 172

SEQ ID NO:6463

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07630

SEQUENCE DESCRIPTION:

GATCCACAGA GTTCATAGGC ATGATTAAAT GGTAGTAGTT TTCCACCACG AAGTTTTGGA 60

ATAATTTGTC ACAAAGCAAT ANGGTAATTA GAAAAATAAC CTTTCAGAAG GAGACAGTTT 120

CTCCAAAGCT TGGGTACTTT CGCTTAATAT TAAANAGTGG ANGGAATTTT TTNCCTGCCA 180

GNCAAAAGGC AGNAGGTGTA TTTCTACACC ATGGNTAGGC AANTNNTTTT TTNCTAN 239

SEQ ID NO:6464

LENGTH:213

TYPE:nucleic acid

01876

TOPOLOGY:linear

CLONE:HUMGS07631

SEQUENCE DESCRIPTION:

GATCTGCATT TAGCAATGTG ATGTCAGTAA ATGGACATAA CAGGATTGTT GTAAAGGTTG 60
GGCATGATGT ATGCAAAGTA CTGGCCAGGG TAGACTAATA ACTGATGGCA TTTATATGCT 120
GTGCTGGAAT ATTGTTACCA AGCTGATGTG CCGTTCTCAC CCNGGGNGAA TACTGGTTTT 180
GTCATTCAT AAATGATATT TTTATAANTA AAA 213

SEQ ID NO:6465

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07632

SEQUENCE DESCRIPTION:

GATCTGGCCA AGAATGAGGC CCTCCCAACA CTTTCACTCC CTCTCCAAGC CTTGATGGGA 60
CCTCCACTTA TTTAGGCCTN ATGTGCTTTG AAGAAGCTTT GAGAGCCAAT NTGTCTTCCA 120
CGGGTCTCTT TTTTGCTACA AGTAATCAGC CCCATGTNTT CTCTTAACT GAGAATTGCA 180
CCGGGGGCAA TTCCTGTTTT CTAAGGTGGT CTCTGCTGCT ATTTAACAAC CCAGAGTAGG 240
CCTCTGTNAG GCTTCAGTGG CCTCAGAAAC CAGAGGGTCC AGATAGGGGG CCTGCTTGGG 300
CCCTCTGCTG NCAAACTGCT TAAAANTTN 329

SEQ ID NO:6466

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07633

SEQUENCE DESCRIPTION:

GATCCACGTG TGTGGCCATA TTGTAACACA TTTTCTGCA AATNACCTCT TTCATTTAAC 60
AGCCCTTATT CAATGGCCTT TTNCTTTTTC AGTAGTACAT ACACATCTGT GTCATTNGTT 120
GAATGACGNC ATGAATGTTT TGTAGATAAA ATATAATTAA ANGNTTTTAA GCATTTCTNA 180
CTCATAGATA TTNATGTTAG CACCAAATTT GNTGTGCAAT GANCCTCCCT ANATAN 236

SEQ ID NO:6467

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07634

SEQUENCE DESCRIPTION:

GATCTATGCC TTAGTGTTGT TTTTNTTGTG TGCTTTGATG TAAAAGCAAG AGTATTTGGA 60
GCAAGAAGCT GCAATGCGCC AAATACACAN TAGGCCTTTC NTTTATCATT CATACGACAT 120
TTCTGGTTTA GGTGTATGTA GTTGGGCCAT GTTACTTGTC CAGAGGAAGA GNCTAAAGAT 180
ATACGGNTAA TTTTNTAGTC CNTAATGCTG TTTTGNTTAC NTNCTNTCAN GGTATTNTN 239

SEQ ID NO:6468

LENGTH:82

01877

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07635

SEQUENCE DESCRIPTION:

GATCGAGCAA TTGCAATCCA GCCTGGGCAA CAGAGCGAGA CTCCATTTC AAAAAAGAAT 60
CAATAAAAAAT GTTAAAAGCA AA 82

SEQ ID NO:6469

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07636

SEQUENCE DESCRIPTION:

GATCCGTAAG GCCATGACCA AGGAGGCCAT CCGAGAGCAC CAGATGGCCC GCACTGGCGG 60
CACGAGACAG ACCTGTTTAC CTGCGGCAAG TGCAGGAAAA AGAACTGCAC CTACACACAG 120
GTGCAGACCC GCAGCTCTGA TGAGCCCATG ACCACCTTN TTGTCTGCAA CGAGTGTGGA 180
AACCCTGTGA AGTTCTGCTG ACCCCTTGTG TAGATGTGCT GCAGCCTTNG GCCTTCNCGG 240
GCCACGTTCT TCGTTGACAN AGGTTNTNTT GGGGNCCCCT AGGAAGGCGG TATGTNCCTN 300
GCCNTTNAAN CTTGCTGNG TTGGATTGNA NCTTTTTTGN CCTTTTTN 348

SEQ ID NO:6470

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07637

SEQUENCE DESCRIPTION:

GATCGTGAAA TCTAAGGCTG CTTGATGTTT TGATGCTTGT NAATGCCGTC GTGCTCTGTG 60
ACTCCACGAA ACGCCAAGGA GCTTCTTCCG GACGNCTCCT CTTCTCTGT AACATACGTG 120
TGAATAGTCA AGGTTTAATT TTNCTTTAAT CTAATAAAGT CGAAGTGGGA CTNTTAAA 178

SEQ ID NO:6471

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07638

SEQUENCE DESCRIPTION:

GATCCAGCAC ACCTCCTCGG TTTTTTTTTC AATAAAAGTT TAGAAAGAAA 50

SEQ ID NO:6472

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07639

SEQUENCE DESCRIPTION:

GATCTCTGTG AAACAAAATN AAGCAAGAAC GAGACGCTG AATAGTTTAA TTTCTNTATT 60

AGAAACTGTG ATTGGAACAA TTGAAGAAAT AAAATCATAA CAGAGAAA

108

SEQ ID NO:6473

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07640

SEQUENCE DESCRIPTION:

GATCTGAAGA AAGCAGCAAT ATCTGTNACT AGAGAACATT CCCATGTTTT TAAACTCTTC 60
ANTTCTTAGA TGCATTTAAN TTCTTAATGC AAATNACGTA GCAATTTGAA AACTTCTCCG 120
TATTACTNGT GTTTAAAAATG TCTTGCTTAA AATACAANNC AAATGGTAAA GGGGATTATC 180
TTTGTTTAG ATGGTTAANT ATNATTNGN 210

SEQ ID NO:6474

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07641

SEQUENCE DESCRIPTION:

GATCAGCAGG ACTGTCTCCA GCACGGAGCT GACACTGTTC AGCTGCCTCA ACTGGTAGAC 60
GCTCCCAAGA AGTCAGAGGC AGCNGTCGGG GCGGAGGTGT CCATNACCTC CCCAGGACAG 120
AGCAAAAACT TCTCCCTCAA GAACAGAAAC GTTTTACCNN CTATTGTATG ACCTTTGCTG 180
AGGGTATGTC CTGCTCCTTT CCACCAGTGA TTTGTATTAA GNCAGCACTT ATATTGTACA 240
ATACTTCAGN CTGTTTTTTT TAAATACATA AAACCTTTATG TAAAAAACT CTATTANCAT 300
GGGCAAA 307

SEQ ID NO:6475

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07642

SEQUENCE DESCRIPTION:

GATCACAGGT TAGGGGTTTC TCTAGATGGG GGTTCGAAA TTTGCAGTGT CTGCTCCTGG 60
GAGGCAGCAC CAGAAAGGGC ACTGAAATGT ACTAGCTGGA TGTNACCCAG TCTTAATAAN 120
CAGGTTTTCT AATCCAGAAA 140

SEQ ID NO:6476

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07643

SEQUENCE DESCRIPTION:

GATCAACTTT GTATATTCAC GTGTATTAAA ATATTGTGCA CTAAATGTTT TGCCCTTGTT 60
TGCTATTATA TGGTCAAGGC ATTTATCAGC ACTATTGTAA TGAACATG TAAGTGGCAT 120
GGGTCAGGGA AAATTATTTT CTACTTTNCT GCCTAATTAA ATTNCTGTTT TCCAGTATTA 180

01879

CATTAAA

187

SEQ ID NO:6477

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07644

SEQUENCE DESCRIPTION:

GATCTTGAT ATTTNATTTT TAAAAAATA GAATAAACAG AGAGGCATAA NCATATCTTA 60
GAGTCCAAGT GGTAGTGTTT AGCATTGGAT ATAATAAATG GATGTTTTAC AAA 113

SEQ ID NO:6478

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07645

SEQUENCE DESCRIPTION:

GATCTCATTA TGGGCTAAAA TAAGACAATA TTCAAAGGTC AGAGATATCT AGCCAGAATC 60
TNATGGAGGC TGGATTTTCTG ATTTTNTNAC AGAATTAGAC AGAGGAACAC AGAGGGGACA 120
GGCTCAGTTA GGGTGGAGGT GTGGGGTAGG GAAGCAGGNC TTGATATAAN TNATTGGAAT 180
CATTGTCTTT TAANCCAGTG GTTTATGTCA GGGTATAGCG TTTCANGGGA TTTGAGGGTC 240
AGATGGGGNA ATGTAGCCTC TTATTTTGCC AGTGTN 276

SEQ ID NO:6479

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07646

SEQUENCE DESCRIPTION:

GATCTGTCAC TGTNTCCCGT CACGCCTTGA TGGGACCGTC TAGTTGCTGG AAAACAACT 60
CAGGGCTCCC ACTGATTCTA CATTATGGTG TGTGTACAA TTATTTTCATT ATATATNACA 120
AGGTAATANT AATAGANATA AAATCCACAG TAANTGCAAA 160

SEQ ID NO:6480

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07647

SEQUENCE DESCRIPTION:

GATCATAAGT NTTAGGACCA AAGGTGTTTT TAATGAGATA ATCTTTTTNA TTTNNTAACA 60
AGAAAGGAAA TATTCATTTT ACATTTTAAC ATCAACTTTT AAGTGATATT CAGANTTAAT 120
TGACCATGGT GATACGTTGT AAAANGTTT CATATTAN 158

SEQ ID NO:6481

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07648

SEQUENCE DESCRIPTION:

GATCCAAAAA AAAAAAAAAAC GAANANAATT NATCCTCACA AATTGGTGTT CTAAATATCT 60
TAAGANCCTA ATTAAATAGC TGACTACAAA AAAAAAAAAA AAAATNCAAA AN 112

SEQ ID NO:6482

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07649

SEQUENCE DESCRIPTION:

GATCCTGTGT GGCCGGTGTT TGCATCTTCA GTGGCCACAA GCATAATAAA GCCCCTTTGC 60
CTTCTCTGT ATTATATTCA ATACAATACA TCAATAGTCT TGAAA 105

SEQ ID NO:6483

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07650

SEQUENCE DESCRIPTION:

GATCAGATTT AAAGNCTGGA TTCTATCTAC ATAAGTCCTT TNAATTCCAC CAGGGCCAGA 60
GCAGTCCAC CACTGTGCAC TTAGCCATGA TGGCAACAGA AACCAAGAGA CACAATTACG 120
CAGGTATTTA GAAGCAGNGG GNCAACCAGA AGGCCCTTAA CTNTCACCAG TGCATCACAT 180
CTGCACACTC TCTTCTCCAT TCCCTAGCAG GGGNGGCTAG CTCATTNAC NGGGTNNAGA 240
ANCTGAGGNC CN 252

SEQ ID NO:6484

LENGTH:36

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07651

SEQUENCE DESCRIPTION:

GATCACGNGT AAAGAGAACT GTTTCCTGCC CTAAA 36

SEQ ID NO:6485

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07652

SEQUENCE DESCRIPTION:

GATCAGCTC ATCAATATTG CCGTCATCTG TTAAACACTC CCAGTATATT TCCTCAATGT 60
CTGTTTACTT AAAATTTTGT GGAGTGACAT AATTAATAAG NAATAAAGTC TGAATTATAC 120
ACAAA 125

SEQ ID NO:6486

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07653

SEQUENCE DESCRIPTION:

GATCCACACT GGGGNGAAGC CTTATNAGTG TACGANATGT GGGAAGAGCT TCAGTCAGCA 60
TGCGGGCCTC ANCTCCCACC AGAGACTCCA CACCGGNGAG AAGCCATATA AGTGTAAAGN 120
GTGTGGGN 128

SEQ ID NO:6487

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07655

SEQUENCE DESCRIPTION:

GATCCAGAGA GCTTCCTGAA GGACCTGTTG AACTCAGTCC CCTGACCACC ACACAGCAGC 60
TGCGGGCGCG AAGAGAAGCT GGCTTGCCTT CCACCCTCTG TTCTCCCTCC TTGTGCATTA 120
AGTTCCCTCC GNGGGATGCT GCATTGGTAC CCAGCCCTCC NCTATCTCAT TTTTCTTGGN 180
GTGGCTTGGG GTTTTAGGC TTCCNGTTTT ATCTCGTGTG TGTGGTGCAC CAGCTATGAG 240
GTTGTCTGTA ANCNAAGCCA TCAAAGGGNC TNTAAATANC TAGGNGCCAT GAGTNGTCCC 300
GGNCANCTTT CANAACTTGA GTNTGANAN 329

SEQ ID NO:6488

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07656

SEQUENCE DESCRIPTION:

GATCTGTACT GTAATTTTGT TTGTAATCCT GTATATNATG GTGTAATGCA CAATTTAGAA 60
AACATTCATC CAGTTGCAAT AAAATAGTAT TGAAAGTGAA A 101

SEQ ID NO:6489

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07657

SEQUENCE DESCRIPTION:

GATCATGTAT ATAATTGTAA CATCACATTG ATTTTACGGA AGATGTTATA TGGNCTTTAA 60
TGACACAATG TTTAGNGATA AAATGTACAT TATTTTGGTT CAGTTTTTTA AAAAANNTAT 120
GCTTTAACAA AATTCTTAGG AATNCTTTTA AGCAATGCAG GTATTGCGAT ANCTGTAGNT 180
TTTACAATAA TGTTACTCTA CAGNTGGGAN AATNN 215

SEQ ID NO:6490

01882

LENGTH:364

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07658

SEQUENCE DESCRIPTION:

GATCTCTTTG TATTCTCTTC AAGCCCAAAC CAATTCTGTN CCTTCAATCT AAATAGTGGT 60
AATATGAATG TTTAAGAAAT GAAATAAGAA ACATGTGCAG GCACTTTGGA AGGTGCTAAG 120
TGACTGCCCT AAGGAATGAA AAGCAAGGGC CAGGTGGGAG TAGCCCAGCG AAGGCACTTG 180
GGCTGCCAGG AACAGGNGGC GTGGGAAACT CTGGCTTAGG NAAACATGAA CACNGGGGCA 240
ACAGCGGCAN ACTGTTGTTC GAGTTAAATC TAANTCTCAG GCTCTTTNAC GGTAAANGGG 300
TTANGGATAC TCCATTNNGA TGAAGANAAG NGTGAGGCTG ANNGTAANGC ACATGGCAGN 360
TNNN 364

SEQ ID NO:6491

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07659

SEQUENCE DESCRIPTION:

GATCTTTCTT CTCCTTTAAG CTCTTTGTTA ACATTTCTCT AGACGCAATT TATTGAAAAT 60
AAAGATTNC TGTTTACTCA TGAAA 85

SEQ ID NO:6492

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07660

SEQUENCE DESCRIPTION:

GATCCTCATT TATGTTTGTA GTTGGAAGC AAAGCTAGGT AGCCATTTCT TCTGTTCTAC 60
CAAGTTATAA TAGCATTATC TTCCCTTAT ATTTCCCTGA AATAAAGCAC ATTCCACTTA 120
AA 122

SEQ ID NO:6493

LENGTH:362

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07661

SEQUENCE DESCRIPTION:

GATCCTACAT TAAGGTCATT TGTNAGAATG ATGTTTGTGT TTGTNTAGAG TTGGCTGACC 60
TCCAACNT GGGGTCAAGG AATCCTACTG CCTNAGCTTC CCAAATAGCT AGGACTATAG 120
GCATGCACCC GGCCATGTGT TTTATTTATA GCTCTTAAAG CCCAGATGAA GAAATCACAT 180
TTTTNCCCAT AGTGAAGAAA CATTTGGCCA TTGCTTAGTC CTTNNGGGGG GTGNCTGTCC 240
TGTTTTTATT AGATTAGNGA GACCCTGTGT GGGCCACAGT TAATATANNC CATTATCACT 300
TTAAGGTAA CCTGCACATC TTAGGTTTCA TAATTNCCTT ATTGTTCTNG NCTCAAANTT 360
GN 362

SEQ ID NO:6494

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07663

SEQUENCE DESCRIPTION:

GATCGGGGCA CTGCAGGGGC CGAGCCATTT TGGGGGGCCC CCCTCCTTGC TCTGCAGGCA 60
CCTTAGTGGC TTTTTCCTC CTGTGTACAG GGAAGAGAGG GGTACATTTC CCTGTNCTGA 120
CGGAAGCCAA CTTGGCTTTC CCGGACTGCA AGCAGGGGCTC TGCCCANAGG CCTCTCTCTC 180
CGTCGTGGGA GAGAGACGTG TACATAGTGT AGGTCAGCGT GCTTAGCCTC CTNACCTGAG 240
GCTCCTGTGC TACTTTGCCT TTTGCANACT TTATTTTCAT AGATTGAGAA GTTTNTACA 300
GAGANTTAAA AATGNAATTA TTTNTAAA 328

SEQ ID NO:6495

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07664

SEQUENCE DESCRIPTION:

GATCCTGTTT CTACCAACAC TGCACCTTAT CCCAGGAACC TGCCCTAGAC CTCCAGAGAC 60
CATATTTNNT CTCCTCCAT TTCTACCCAG ACCTCCAGGC CTCCTTCTGG AATNATAGAA 120
CCGTAGAATT GGAAGGAATT TNAGAGGGGN TCTAGTTGGA GTTGTGTCCA ACAGAATTCA 180
TTAACACCAG CCTGGGCTTG TTTTTCCTCC TCCCTCTGGA CTTTTTAAAT CTTTTCCTCC 240
ACCTCAAAAA ATACTTACAC ACAGATTCTT CTTGTACAGG CATCAAAACC AACTNCTNTG 300
CCCCTAAGGC TGTGTNNGNG TGGTNTCCAG NNANCCNTAC CNCAGTCANT N 351

SEQ ID NO:6496

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07665

SEQUENCE DESCRIPTION:

GATCTGGTAG GGGAGAAATG GCGAATGTAA TACACATGAN ATGGTATATC CTTGCAATGT 60
ACAGTATCAG AAGGTGGTTT GACAGCATCA TAAACAGGCT GACTGGCAGG AATGAAAACA 120
AA 122

SEQ ID NO:6497

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07666

SEQUENCE DESCRIPTION:

GATCANTTGC AAACCTCCCC CAGCCCCTAC CATCCAATNT GGACGGAAAA CANGAACTGC 60
CTGAAGAAGA GTCCAAGCTA CAGATACACA GCGTGTGCAT TGCGGCTGTC ACCTTCCTNC 120

TNCCACTTCT GTATCCTCAG AGATGCTGCG TGGATGTTTC CTTANCTCA GCTGACTTCC 180
CTGTGAATNT CTAATGCTAG TTCANGGGCC TNCNGGAAAT TGANTTN 227

SEQ ID NO:6498

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07667

SEQUENCE DESCRIPTION:

GATCTTGCCC TTCTCACTCC AGAGGCTAGT GGTCACAGAC AGCTGGGAAT GGCAGCCACA 60
GAGGGTCCCC TCTGGGAGAA ACAGCTTCAC CCCAGCCTCA GGGCCCTGGG CCATCACTGC 120
AGTGGCCCTG GGAGGTGAGG AAGAAGCTGG CTAGAGGAGG GGGCTCCAC CTACCTTTTA 180
TTTAAGCCAG TATTCTTTGT TCCTGCTTGT AATAAACTT CAGTTTATAA GAGTTAAA 238

SEQ ID NO:6499

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07668

SEQUENCE DESCRIPTION:

GATCTGTCAT AACTCATTTT AAAGTGTGAA ATATGCCATA TGAAGAGGGN TTAAGAGGCT 60
GNGAACTCA TATTTCAACC AAATCCAGCA TTAGTTTTTC TTAGGTCTAA TANTTCCTNG 120
TTAATAAAGA TTAAATGCA AA 142

SEQ ID NO:6500

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07669

SEQUENCE DESCRIPTION:

GATCTGTCAT TGTCTCCCAT CACCCCCAAA TGGGCCCTC TCGTTGCAGG AAAACAAGCT 60
CAGGGCTCCC ACAGTTTCTA CATTATGGTG AGTTGTATAA TTNTTTCATT ATATATTACA 120
ATGTAATAAT AATAGAAATA ANGTACACAA TNNNTGTAAA 160

SEQ ID NO:6501

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07670

SEQUENCE DESCRIPTION:

GATCTGCCCC AGACTCCCAG AGGGTAATGC CACTCCCACA ATCTCAGGCC TGGTACCCAT 60
CCTNTTTCCT CTGTGAGCAG AGCCAGAAGG TAGGTCTNTT CAGAGTCTGT NNCCCTGGAC 120
CTGGGGNGTG GATATGANAT GGGATATCTC CTTCCATTCC CCGNTCCAGG GGAGAGTCAC 180
TAGTTGTACC CTACTCCATT AGGTCCCAAA TAGGGGCCCA ATTTACCTG TATNAGGNTC 240
TGTGCATNCC AGCTGCCNNA AATNTN 266

SEQ ID NO:6502

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07671

SEQUENCE DESCRIPTION:

GATCCAGACT TAGGGACGAG GCTGTCACTG GTGGGCACCC TCTGTCCTG TTTGTGTGTT 60
TGAATAGTCT GAAATNCTGT GACTTTTTTT GTGTGAATAA AGNTATGAAA CTTCTGAAA 119

SEQ ID NO:6503

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07672

SEQUENCE DESCRIPTION:

GATCTTCGTG TGAGCCGCGN CGTCCGNCGN GACCGAGCTG CCTTCGCGTG CCCCCGNCCT 60
GTGTTTTATA AAAAGAAAGA TTCTCGGAAA 90

SEQ ID NO:6504

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07673

SEQUENCE DESCRIPTION:

GATCTGTCAG TGTATCAAAA CAACATAAAT AAACCTGAAC AACTGATACG CAAAAAACA 60
AA 62

SEQ ID NO:6505

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07674

SEQUENCE DESCRIPTION:

GATCAAGTTT GGTCAAGTTT TGTCACCAAG CTTTGTAAT AAACCTGGTT TCATAGCTTT 60
TTGGAGATGA AA 72

SEQ ID NO:6506

LENGTH:221

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07675

SEQUENCE DESCRIPTION:

GATCTTTTTT CAGAATGTTG GAAAATCCTG TAAATGCAAA TAGTCAATAC TGTATTAAAT 60
ACGTGCACTT GGNGTNTGCT TCGCTTGAC AGTTGTAAAT AATCAGAACA TATGNAAAAG 120

GTACCCTACA GAGGAAATTC TGATACAGAT TATTGCTATA TTATAACCTN TTGCTGTTGA 180
GCGGGCTGTA GGTAANCTAA TGTGTGGTT TGA CTATTAA A 221

SEQ ID NO:6507
LENGTH:42
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07676
SEQUENCE DESCRIPTION:
GATCTTCATT TTTGTAATAA AACGGNAGAC TCATCCAGTA AA 42

SEQ ID NO:6508
LENGTH:62
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07677
SEQUENCE DESCRIPTION:
GATCTTAGAC TTCCCATCCT CTAGAACTGT GAGAAATAAA TTCCTGTTGT TTATGAGCCA 60
AA 62

SEQ ID NO:6509
LENGTH:117
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07678
SEQUENCE DESCRIPTION:
GATCTGCCAT CTAGAACTCA TATTCTAAAG GGCAGTGNTT TCTCAGAACA GTGATGTTCT 60
GGAATATGTA TTATTTATT TAACACTTTT TTAATAAANT CTTTATTATA AACCAAA 117

SEQ ID NO:6510
LENGTH:113
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07679
SEQUENCE DESCRIPTION:
GATCTGTTTA AAAGATTAAA TCTCAAGTTA ATTAAAAATA AGCTTTTCAA AAATGTATTA 60
TATTTATAAC AAATATACTG TAAATAGANT AAAGACATGC TATTCAGTGT AAA 113

SEQ ID NO:6511
LENGTH:159
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07680
SEQUENCE DESCRIPTION:
GATCTGTCAC TGTCTCCCAT CACCCTAAGA TGGGNTGTC TAGTTGCAGG GAAAGAAGCT 60

CAGGGCTCCC ACTGATTCTA CATTATGGTG ANTNGTAGNA TTATTTTATT ATATATTACA 120
ATGTCAATAA TAGAAATAAN GTGTGCANTA AATGTCAAA 159

SEQ ID NO:6512

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07681

SEQUENCE DESCRIPTION:

GATCAGCCGG AAGAGAAAAT NAAGACCCA GAGACATTTA TTGGGGAGTA GGATGTGGCT 60
GAGTGCCTTT TTTTGGCCA GACTAGCGGA TTCAGTCCTG GAAGAGAGTA TCATATAATG 120
AGNCCCACAG GCACTGGCAC CCTTGGGTTG GNAATAGANG NNGNCCATGG ANTGGCGAAA 180
ACCAGGGATT CCAGCTGGGG NATAGTANCT TGAAGGTGN 219

SEQ ID NO:6513

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07682

SEQUENCE DESCRIPTION:

GATCTTGACC TACAGTTTGA AAAACAGAGT ACTGAAGAGT CTTGTTTCCT TTATTTAGAA 60
CAGTGCAAGG ATGAGTATCT GGGTAGAGTT GTGCGTTGTA CATAACCTTT GATAGTCATA 120
TAGTTGAACC AAAAGCAANN TCTGTAGTGN CATTGAAAAA ACATTTTGAC TTGATTTATC 180
CTGNCAGNNT NCNNTAATT TTGGCTGGCT AATNCAN 217

SEQ ID NO:6514

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07683

SEQUENCE DESCRIPTION:

GATCTCTGCT CACGTTGCCT CCCTTCATCT TCCTGCATAA GTGGAAGCAG CCTGAAGCCC 60
TCACTGTTTC TTGTACAGCC TGCAGAGCCG TGAGCCAAAT AAAGCTCTTT TCTTTTAA 119

SEQ ID NO:6515

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07684

SEQUENCE DESCRIPTION:

GATCTGATGG TTTTATAAGC ATCTGGCATT TCCCCTGCTT GCACTCACTC TGTCTGGTG 60
CGCTGTGAAG AAGGTGCCTG CTTCTCCTTT GCCTTCCACC ATGATTGTAA GTTTCCTGAG 120
GCCTCCCTGG CAATGCAGAA CTGTGAGTCA ATTAACTTC TTTCTTTAT AAA 173

SEQ ID NO:6516

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07686

SEQUENCE DESCRIPTION:

GATCACCATG TNAGCCTTAG ACCAAGAAGC TGGCTAGTCC TTNCTGTGAA GCTAATACAA 60
TNGNCATTTT CAGACAAATT TAAAGGNAAC ACTAAGGCTG CTTCAAAGAT TATCTGATTC 120
CTTTAAAATA TATGTCTATA TACACAGGCA TGCTCTTTT TTAAGTGCTT ACATTTTAAT 180
AGAGATGANT CAGTTTTNGA ATCTANGCTG TTTGCCCAAG NTGANGCTNC CAGGGTTN 238

SEQ ID NO:6517

LENGTH:289

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07687

SEQUENCE DESCRIPTION:

GATCTGTTTT TNACCACTTC ACTGAAAGAC ACCATTTATC TACCCAAGGG CAGAAAGTAG 60
AACTTACTAT TCATTAAATG TTTGACACAA TTGGAATTGT CTTTAATTTT TGTCAGAATG 120
CTATTGAAAA TGTGAATTGC ATGACTTGGT AGCATATTCT TTTGNTGCAA AAATAGGCCA 180
TATTAACCAT GCTTATGACC ANTGNCCTGT GCTACTGGCT TTTGGNAAAA ATGGTTTGCN 240
TCAGNTTGGG GAAGTAATNA AAGGANTNCA CCTGGNGNCC CNNGAATAN 289

SEQ ID NO:6518

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07688

SEQUENCE DESCRIPTION:

GATCCCCCAG GATTCTATTN TGTTTAATGG GCTTTTCTAC TAAAAGCATA AAATACTGAG 60
GCTGATTAG TCAGGGCAAA ACCATNNACT TTACATATTC GTTTTCAATA CTTGCTGTTC 120
ATGTTACACA AGCTTCTTAC GGTTTTCTTG TAACAATAAA TTTTTGNGT AAATANTGGG 180
TACATTNTAA CAAACTCNGT AGTNCAACCT AAACNGTAT NAACGGTGTG TAAAAA 236

SEQ ID NO:6519

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07689

SEQUENCE DESCRIPTION:

GATCAGGTCT GCTTTNAGTT TCATTTTTGT TTCTTTCCCG TCCCACTCTT TAAAACTGG 60
TTCCGTGAGA AANGGCAGAA GCCGTTCCGT GTCTCTTGCA GGCTGGGCCG NCTTCATGNA 120
GTNCGAGGGC GTNCCGTGAC NACGTACATA CGTATGN 157

SEQ ID NO:6520

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07690

SEQUENCE DESCRIPTION:

GATCTTTCTG GATATAATGA AGCTTCCTGG AGAAACAGAC TGGCAATCAG AAAGATTG 60
CTGCTTCCGA CACCTCCATC TTGGGCCTGC AGAGGCTGCA GCAATCTGTG AGGCAGCCGA 120
ATCTGCGNGG CAGNCCACTC TTCTAGGACA TATGGGTTC ANNAGGCACC NTTTTGCTAN 180
GNAGGCATAN TTANN 195

SEQ ID NO:6521

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07691

SEQUENCE DESCRIPTION:

GATCGAAACC AAGTTATTAT TATCCTTACT GTATTCCATT GCTTGATCA AAATCTACTT 60
TTTTNCTAGT AGGAAACTAT GCATTCCCTA TCAGTCCCTT TGATTATCAG GAATGTATAA 120
GAATTGTGAT AAAATAGGCC AATATGCTAT TTGGTACCAT TTGTATGTAT TTTANGTGCA 180
TAACCTAGGT AAAATAAGNN TAGTTTCTAT GTGTAAAGAA GCAAGTTTTA CAGTATGCAG 240
ACTCCAGTGG ATGTATTTTA GGCTGTATAC ATNTTTAAGC TCTNTNTGGT ANATAGGGTA 300
TACAAACTAN NTGCCTCNA ATNCNAATAN NTTCGGN 337

SEQ ID NO:6522

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07692

SEQUENCE DESCRIPTION:

GATCATTTCA TGGAATCTTT GAAGTATCTT TGA CTCTAAC TTGACTTGG TGGTGGACCT 60
TCCTTGGTTT TANTAACACC TAAGAGATAT CCTTTAGAAT TACATGTATT TTAGCATAAG 120
GAAATTGNA AAGTAAAACA TACTGGTTTT TTTCAACAAG ACCATATGTA AATTAAATAG 180
TGAAATGTGT ATGNGTTTCA GTAGAACTGT ACCATCAACA ATGTTTCCAT AAATATGCAG 240
NGTTCTTCT NNTGTATTGT TATTTACAAT ATTGTTAAAT NGGATGCATT TGCAATNNCT 300
CGGNTTCTAA AGNATTGNGG TNCNGANCCT N 331

SEQ ID NO:6523

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07693

SEQUENCE DESCRIPTION:

GATCTGGAAT GGTGTTTTGG TTTGGGGGGA ATTTTTTTTT TTCCNGGCA AATNACATGT 60
GTTGTTGATG TGAGTATCTG ATGAAAAANC AATGNCAGAA TANCCGN 107

SEQ ID NO:6524

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07694

SEQUENCE DESCRIPTION:

GATCTATATA TGTATAAATA TGTATTTTGT CAAATTTGTN ACTTAAATAT ATAGAGACCA 60
GTTTNCCTCTG GAAGTTTGTT TAAATGACAG ANGCGTATAT GANTTCAAGA AAATTTAAGC 120
TGCAAAANTG TATTCCTAT AAANTGAGNA GTCTCACTGN TAGCGGTTCT TTATTGCTCA 180
TTTTTTAAAA ANTGGN 196

SEQ ID NO:6525

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07695

SEQUENCE DESCRIPTION:

GATCGGCTCT AGAAACACTG CTTTCCTTC TTTNCTTTTG TTTCTTTCT NTTATTATTT 60
TTTTAAAGAG TAAACGAAAG TNCTGTATGA ATTCGGACCC AGGCAGCAAC CACAGGNCTN 120
GGGGTGAGAC CCTCCTCCTC CCAAGNGAGC AAAAAGGACC CATGGCCCCC AAAAAACCC 180
CTCAACGAGA ATCCTCAGCN TTGTAAAATG CAAAANTGTC TAATGAATAT TTNTATNTGT 240
NCCATTTTGT ATAANTN 257

SEQ ID NO:6526

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07696

SEQUENCE DESCRIPTION:

GATCCTATTT AACATGACAA GTAAAATGCT TGCCATAGGA TATTTATATC TAGAACTTTG 60
ACAGACATAC CTAATCATTT TCACTCAGGC ATCCTGCATA TCATTCATTT ATTCATTTGC 120
CTATCATTTT TTGANCATTT AAAATGTCCT AGATACTTAG NATATGANTG TTGAATGTCA 180
CAAACTGAA TGTCACACTC CCTCCCCTTT AGANATTTNC AGCATGGGAT GCGAGCTAAT 240
GATATGTAAA TAANTACATA TTTNTAANTA ACACAACCN AAAANAANAN AAACNAN 297

SEQ ID NO:6527

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07697

SEQUENCE DESCRIPTION:

GATCGTGGCC AACGTGGACC TGCCTACGNA GGGTGGGCTC TGACCCAAGT GGGGCCTCCT 60
TGTCCAGGTC TCACTGCTTT NCACCGTGGT CAGNGGGACT NTCAGCTGAG CTTNAGCTCC 120
CATGGAGCCA GCAGGNN 137

SEQ ID NO:6528

01891

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07698

SEQUENCE DESCRIPTION:

GATCAGCCTG AGAAGCCACT CAACTTGGCT CACATCGTGC CTCCCAGACC TGTAACCAGC 60
ATGAACGACA CCCNTGTTCT CCCACTCTGT TCCCTCCTCA GGAAGTCCTT TTATTACCAG 120
GAGCTCGGAC GGTGCTTTTG GTGGNTGCGT CTAGATGGAT AACATGACTT CTTCTACCCT 180
AAAATATTCC TATAATACTT TNAGCTGTTC TGGTTCCTCC AGGGTGNATG GTACCNATTA 240
ACCCAAAATA CTGNTTATNT ACCCNTTNTT ACNATNTANN AGTCANTTTT GGN 293

SEQ ID NO:6529

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07699

SEQUENCE DESCRIPTION:

GATCCACGGG GCCAGGCCAC CCTGCGGGAG CGCCACACGC ATCCACTTCG GATTCAGTGG 60
GTGAAGACAG AACGCTNAGA GTCTGCAGGC GGCTCCTGTG CTTTAAATTT CTGGCTCTTC 120
GGATGTCTTC TAGACATTTA CTATCACTGC ACCTGAAGAA AAAATCACTT TTACCTTCCT 180
AATTTAAAAA GACAAAACAG AAATGTACGT TCCTTCGCTA GCTTTAGTCT TTCTGTTCCC 240
ATTTTNATAA ANTCTGAGGC ATTGATAATG NTCNNATCTA AAATTTGTAC AGTGTGATTT 300
CNNTNNTAAG NGTTAAANCT TTTANTAAAA GGGGCANGAN NTNAN 345

SEQ ID NO:6530

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07700

SEQUENCE DESCRIPTION:

GATCCAGAAA ATAGGTACGG TTTTAAAATA TTTNATATAG AAAAGCTACA AAGTAAATTG 60
AGCAATGCTT TAAAGTTAT CTTTGTTTTA TAGACTTTTT TGTGTATGT ATTACAGTCT 120
TTATAATCTT ATTTAATGNA TATNTGTACT TTCAAGTACT GATGGAGATA GNCTCAAAAC 180
AGTTATTTTN TTACAATTAA TCTACAANGG GCATTANTAT TGTNGNCTTT TAAAACATCT 240
GCTGGNTATC TNATNTGCAA TTCNTN 266

SEQ ID NO:6531

LENGTH:43

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07701

SEQUENCE DESCRIPTION:

GATCCACAC ACTAAATATA TGGTTGTTTT GCCACCTTTT AAA 43

SEQ ID NO:6532

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07702

SEQUENCE DESCRIPTION:

GATCTGTTTT TCACCACTTC ACTGAAAGAC ACCATTTATC TACCCAAGGG CAGAAAGTAG 60
AACTACTAT TCATTAAATG TTTGACACAA TTGGAATTGT CTTTAATTTT TGTGAGAATG 120
CTATTGAAAA TGTGAATTGC ATGACTTGTA GCATATTCTT TTCTGCAAAA TAGCCATATT 180
ANCATGCTTA TGACAATGAC TGTGCTACTG TCTNTGGAAA ANTGTTTGTC TCAGTTGGNA 240
ATNCTAANNG NTTCACCTGC GGANNAACG CCCCNNNCCN CCCAN 285

SEQ ID NO:6533

LENGTH:43

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07703

SEQUENCE DESCRIPTION:

GATCCTCTTG TGTATATGCA AATAAACCTA TTATTCACCT AAA 43

SEQ ID NO:6534

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07704

SEQUENCE DESCRIPTION:

GATCAAGACA CCTTTTATTA ATAAAGAAGN GACACAGGTG TAGATATGTA TATACAAAAA 60
GATGTACGGT CTGGCCAAAC CACCTTCCCA GCCTTTATGC AAAAAAAGGG GAGANTCAAA 120
GCTTTCATTT CAGAAGTGTT GCGTGGANAA GTATCTGTAA TTAAAGTTTC GANGTAATTT 180
AACCTATTTT TAAA 194

SEQ ID NO:6535

LENGTH:45

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07705

SEQUENCE DESCRIPTION:

GATCAAGCCC TGCTTAAAGT TAAATAAAAT AGAATGNATG ATAAA 45

SEQ ID NO:6536

LENGTH:38

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07708

SEQUENCE DESCRIPTION:

GATCTTCTGG ATGACCTGAA ATNAGAACTA ATTGGAAA 38

SEQ ID NO:6537
LENGTH:52
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07709
SEQUENCE DESCRIPTION:
GATCGCCCAA CTGCACTCCA GCCTGGNAGC AAGACTCTGT CTCGAAAAGA AA 52

SEQ ID NO:6538
LENGTH:55
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07710
SEQUENCE DESCRIPTION:
GATCAGNACC ACTGCACTCC AGCCTGGGCA ATCANAGTAC GACTCCTGGC TCAAA 55

SEQ ID NO:6539
LENGTH:252
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07711
SEQUENCE DESCRIPTION:
GATCAGTCTG AAGTCGATTA CTAACAGCTG AAGCTGATAA AACCATTAAA GTATACAGAG 60
AGGATGACAC AGCCACAGAA GAAACTCATC CAGTCAGCTG GAAACCAGAA ATTATCAAGA 120
GAAAGAGATT TTAATGAATG TGGAATTTTT TCTCTCTCTT TTTTTTCTT TTTAATTAAA 180
AAAAAAAAGG CTTGGGGTTC ATGGGGTTTT CCNGTCATTT NGTGCNCTGG CTGGGATTTT 240
AAGGGGGAAT TN 252

SEQ ID NO:6540
LENGTH:48
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07712
SEQUENCE DESCRIPTION:
GATCGAGNCA CTACACTCCA GNCCGCCGAA GCAAGACTCT GTCTCAAA 48

SEQ ID NO:6541
LENGTH:235
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07713
SEQUENCE DESCRIPTION:
GATCANACAT TTNCTACCTA TGAATNTTGC TGCATACAGA AAGTGCCCTT TCCTCAGGAA 60
GTTGCTGTGT NTCATTTCTT TAGATGGNCT CTTATCTAGA ATACATAGCA GCTCTGCAA 120

GAANCAGTTT TAAAAATGG GAACTTCTAC ATTGAAAAGT CCCNTTTTT GTGCCAACTA 180
TGATTAGTGN GCGGAAGNAN TCTTATTCTA TGGCATATGT ATGGANGGGG GGGGN 235

SEQ ID NO:6542
LENGTH:36
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07714
SEQUENCE DESCRIPTION:
GATCCTTTTA AATTAAAGC AAGTCCTAAA ATGAAA 36

SEQ ID NO:6543
LENGTH:155
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07715
SEQUENCE DESCRIPTION:
GATCCAGCGN GCGCACGCAG AGTACCTGCA CAAGGCCGTC TTCAGGGGCC TNCTCACGGA 60
GAAGNCGGCG CCCGTNATGA ACGTCATCCA CAGCATCTTC AGCCTCGTGC TCAAGTTCCG 120
CAGCCAGCTN ATCTCCCAGG CCTGGGGGCC CCNNN 155

SEQ ID NO:6544
LENGTH:110
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07716
SEQUENCE DESCRIPTION:
GATCAATAT CACTCTCCTA CTTACAGGAC TCAACATACT AGTCACAGCC CCTATAACTC 60
CCNCTTACAA TANNTANCCA CAACCAAAAT GGGGCTCANT CACCCAACCN 110

SEQ ID NO:6545
LENGTH:192
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07717
SEQUENCE DESCRIPTION:
GATCTGGTTG TNTAGAAGCA TGCAGCACCT CCTGCTTCAC TCTCTCTGTC TCTCCTGCTC 60
CACCATGGCC AGAAACGTGC CTGCTTCCCC TTCGCCTTCT GCCGTGATTG TAAGTTTCTT 120
GAGGGCTCCC CAGCCATGCT TCCTGTACAG CCTGCAAAAC TGTGAGTCAA TTAAACCTCT 180
TTNTTCATA AA 192

SEQ ID NO:6546
LENGTH:73
TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS07718

SEQUENCE DESCRIPTION:

GATCATACTG GTTGTGTTTCT TATTTTGATT GGAGAAAAAT NAAATTGCTG CATTTCGCAG 60
TGACCCATTT AAA 73

SEQ ID NO:6547

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07719

SEQUENCE DESCRIPTION:

GATCAAATGT GTGGCCTTTG ACTGAAATCA GCCAGCCCAT GGCCCCCAAT AAAGGCAGCT 60
GCCTACTNCT CCNTCTGAAA 80

SEQ ID NO:6548

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07720

SEQUENCE DESCRIPTION:

GATCCANATG CGTGTGGCAG CCNAAGGATT TGTGTAGGA GCAATGNCTG TTGGTATGGG 60
CTATTCCATG TATCGGGAAT TCTGGGNAAA ANCTAAGCCT TAGAAGAAGA GATGN 115

SEQ ID NO:6549

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07721

SEQUENCE DESCRIPTION:

GATCATAGCA TATCTACTAT TTTATTATTT GATTTTTAAA ATTTAACATT ATATTATGGG 60
TAACCTTACA TGTCAATAAA CAATTCCACA TTGTCAAA 98

SEQ ID NO:6550

LENGTH:33

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07722

SEQUENCE DESCRIPTION:

GATCAACTTT GGAATAAAGT GATGCCCTTC AAA 33

SEQ ID NO:6551

LENGTH:42

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07723

SEQUENCE DESCRIPTION:

GATCCACTGT AATATTTAAT AAAAAATGTT ACTATCTGTA AA

42

SEQ ID NO:6552

LENGTH:24

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07724

SEQUENCE DESCRIPTION:

GATCAAATAT CACTCTCCTA CAAA

24

SEQ ID NO:6553

LENGTH:141

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07725

SEQUENCE DESCRIPTION:

GATCACGACC CTNTCACGTG CACCCANTTA GNGTTGTGAG CCCTTAAAAG GACCAGGGAT 60

TGCTCACTCG GGGAGCTCGG CTCTTGAGAC AGGAATCTTG CCCATTCCCC GAACGAATAA 120

ACCCCTTCCT TAACTCAGAA A 141

SEQ ID NO:6554

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07726

SEQUENCE DESCRIPTION:

GATCAGGCAG CAGGAGTGAG GGGCACAGTC ACCCCAGGCC TTGCTGAGCC CAGGTCTGGG 60

TACTGAGTGT CCAGAGCTGC CTCCCAGGA GGTAAAGGTG GGGGCAAAGG GGAAGCTTCA 120

AGCACTTTGC CTACTTTTGT TCACTNCCCA GTGCACTGTG ACTCAGGCCT TCCCATCAGG 180

CCTATTTGTC TACCCAATAA AGCGTGTTTT TTCCAGAAAC AAGAAA 226

SEQ ID NO:6555

LENGTH:46

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07727

SEQUENCE DESCRIPTION:

GATCAGCCTG GCCATGGTNA AACCCCATAT CTAGTAAAAC TACAAA

46

SEQ ID NO:6556

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07729

SEQUENCE DESCRIPTION:

GATCCACTAT NAGGGTGGCA TCAGCCTGAA TTGAACATCC TATATCTNAA CATCTGCATA 60
 AATTCCAGGT GACCACCAGT GTGCACCACT CACCCATCCC AGTGTATTCA GGCCNNNTGA 120
 CCTGACCCAN TTTGGCCCAG AGGACTCTGC TGGTGACCTG AAAAGAGGGA CTACATATTT 180
 NAGGATATTG TTGGTCTCAC ATGACTCTTG ATAGAGTTTG CCAGCCTTCA AATCACCAAC 240
 TGTGGGAACC AAGNNGGNN TTATTGCCTT GCTGTGTTCA ATTACANAAA ACGNTGGAAA 300
 NGGCTN 306

SEQ ID NO:6557

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07731

SEQUENCE DESCRIPTION:

GATCTGAATA CCCCTTCTCT GTAGCTGCTA GTGAGCCTTC CCATTTAGAT TAAAGATTGC 60
 TTTATCCAGC AGTCAATTAA CTCTCCAGTT ATCAGTACTC CCACAATTGG CCAGGGCAAC 120
 AATAATTGGA GTTCATACTG ATGCCCTGAG GCACTGAAAA AAAAAAAAAAT TCCCAAGGNG 180
 CCTTNTGGGN TGNCTAAAGG TTNCATTGTG NTTGGNGGCT TTNGTGTTAG GTGTGCNGTT 240
 TANTTTCCTA NTTNN 255

SEQ ID NO:6558

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07734

SEQUENCE DESCRIPTION:

GATCACGNCA CTGCACTCTA GCCTGGGCGA CAGAGAGAGA GACTGTCTAA AAAAGGAAA 59

SEQ ID NO:6559

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07735

SEQUENCE DESCRIPTION:

GATCCTNAGG TCTCCTAGCC ATGTGGAGCT GTAAGTCCAA TNAACTTCT TTTCTTCCC 60
 AGTCTCAA 69

SEQ ID NO:6560

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07736

SEQUENCE DESCRIPTION:

GATCTGTCAA GTCCAGTAGA GCTTCAAGGT AAAATNAAAA TAACAATGTG AAA 53

SEQ ID NO:6561
LENGTH:33
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07738
SEQUENCE DESCRIPTION:
GATCCAGAGG CCATGGAAGA GTCTCCAAGG AAA 33

SEQ ID NO:6562
LENGTH:158
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07739
SEQUENCE DESCRIPTION:
GATCAGCTCA AAAAGNTTTG GCTTAGNGTT TTCATTGCAA ATNATAATTG CTGTAGAGCC 60
ACACACAAC TTTGAAC TTT TAATTATAAG TGTTATGGCT AAAGTTATTN NCTGAAAATT 120
TCAGTAAAGT GTGTGAATGT TTCTTTATGT ATTANCNN 158

SEQ ID NO:6563
LENGTH:121
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07740
SEQUENCE DESCRIPTION:
GATCAGGGTT CTTTTTTTCC CCCATACAAG TATCCAGTCA TTGTAACACT GTTTATTGAA 60
AGAATTATCC TTTCTCATT AAATTACCTT GCCAATTAGT AAAAAATCAA TTAACCATAA 120
A 121

SEQ ID NO:6564
LENGTH:87
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07741
SEQUENCE DESCRIPTION:
GATCAGCATA CACAAATNAC AAAAGTCTGA ATTTTTTTTT ATCAAGAGGG ATAAAACACC 60
ATGAAAATAA ACTTGAATAA ACTGAAA 87

SEQ ID NO:6565
LENGTH:54
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07742
SEQUENCE DESCRIPTION:
GATCCNTTTT NCTGTGGCAT TTGGTGCCCT AAAAAATTTG CATTTATCTT GAAA 54

SEQ ID NO:6566

LENGTH:20

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07743

SEQUENCE DESCRIPTION:

GATCATTGA CAACTGCAA

20

SEQ ID NO:6567

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07744

SEQUENCE DESCRIPTION:

GATCGACTAT GAGACAGCAA AGGGGCCTAC CTNCTNATGG AGTTAGCCAA GAGCCAGGAC 60

AAGAGTCTCA AGATTTATGA CGGTGCCTAC CATGTTCTCC ACAAGNAGCT TCCTGACGTC 120

ACCANCTCCG TNTTCNTGA ANN 143

SEQ ID NO:6568

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07745

SEQUENCE DESCRIPTION:

GATCTGCTGC AATGCTCNAA GGCCAAGGAT TCATCTNTCT TNTCACCCTA GGACCTGNCT 60

GGCATTGTAT TAGCAAACCT TTTCACTAGA CATCGTACTA CACGACACGT ACTACGTNGT 120

AGCTCACTGC CNCTGATGTC CTATCAATAG GAGCTGTATT TNCCATCATA GGAGGCTTCA 180

TTCCTGGTN TCCCCNATN 199

SEQ ID NO:6569

LENGTH:37

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07746

SEQUENCE DESCRIPTION:

GATCGTTTCC AGGACAATAA AAGTTTCGGA GTTGAAA

37

SEQ ID NO:6570

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07748

SEQUENCE DESCRIPTION:

GATCAGATGT TAAAAATNAT TCCAAATACT TCATTAAAAT AATTATTTTA TTATAAA

57

SEQ ID NO:6571
LENGTH:152
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07749
SEQUENCE DESCRIPTION:
GATCGAGGAA AGGGGCGGAG AATTTTTTTT TCTTCTTCCC ATTTCTTTAA AAAACCAACA 60
CAAGAAAACA CACACACACA CAACCAACGT TTGTTCCCGA GTAGAAACAT AAATAGGGCA 120
GAATCGAACA CTCTGTTCTT CTCTCTTCCA AA 152

SEQ ID NO:6572
LENGTH:22
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07750
SEQUENCE DESCRIPTION:
GATCAGAGCT TGAAAAAACA AA 22

SEQ ID NO:6573
LENGTH:111
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07751
SEQUENCE DESCRIPTION:
GATCAACCTG TGGCTGTTTT CCCGTCTAGG TTCTCACAGG NATCTCCTGA CAGAGGTACT 60
TAACAATGGC TCTNCTGGAA ATTTCTATAA ATAAAATGTC CAAAATGGAA A 111

SEQ ID NO:6574
LENGTH:44
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07752
SEQUENCE DESCRIPTION:
GATCTCATCA CTGCTCCTTA TAATAAACCT AATAAAGCAA GAAA 44

SEQ ID NO:6575
LENGTH:42
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07753
SEQUENCE DESCRIPTION:
GATCCCGCCA CTGCACTCTA GCCTATGTGA CTCTGTCTCA AA 42

SEQ ID NO:6576
LENGTH:48

TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07754
SEQUENCE DESCRIPTION:
GATCATTTGT AAGACCAAAA TATAAATAAA AAGTTTCAAA AATCTAAA 48

SEQ ID NO:6577
LENGTH:46
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07755
SEQUENCE DESCRIPTION:
GATCGATTAC AATAAATGTT TTTCTAAAAA GCCATTTTCC CACAAA 46

SEQ ID NO:6578
LENGTH:125
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07756
SEQUENCE DESCRIPTION:
GATCAAAAGC TTTGCATTGA TAAGTGTCTC ATAATATTTG CTGTGATTGG AGAAAAAATG 60
TAGTCGTAGC CAATAAATTT TATCAGCTTT TAAGTTTCAG TATTATTAAA CCATTTTCAT 120
ATAAA 125

SEQ ID NO:6579
LENGTH:36
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07757
SEQUENCE DESCRIPTION:
GATCAAATGT GAAATAAATA TGAATGGAGT GGTAAG 36

SEQ ID NO:6580
LENGTH:199
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07758
SEQUENCE DESCRIPTION:
GATCTCTGGC CCTTTGCGTT TCAGTATTTG TCCTTTTAT GCCTGAATGT TTAACCTGCC 60
ACATNTTGT ACTGCAACAT GAATCTTGGA AATTTTAATG TTATGCATT NAAANGTTTT 120
TGTTTATCTG TAAACTAAAT GTGCCCTTAT TGGCTNGGNG GTCAAGTNAAGATGTTTGTA 180
TAATGTATTN GTCAGNAAA 199

SEQ ID NO:6581
LENGTH:66

TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07759
SEQUENCE DESCRIPTION:
GATCTACTGT GATGTTGTCT TCAAAGGCAG GNGAAAATAA TGTTCACAAT AAAATGTGCT 60
AACAAA 66

SEQ ID NO:6582
LENGTH:135
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07760
SEQUENCE DESCRIPTION:
GATCTGTAAA GAATGACTTT CAAGGATAGT TCTTAGGGGA CTGTGAAAGT GTTGGGTCTT 60
ACTCNAGGAT GCCTGCATGG GACCCNACCC GGAGCTGGTG TGGCCATTCC CCAAGTGCCA 120
CTGGNCCATG GNNNN 135

SEQ ID NO:6583
LENGTH:130
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07761
SEQUENCE DESCRIPTION:
GATCAGCCTG GCCAACATGA TGAGACCCCA TTTGTACTGG AAATGCAAAA ATTGGCCAGG 60
CATGGTCGCG GGTGNCTGTG GTCCCAGCTG CTCGGGACGC TGAGGCAGGN NNNATCGTTT 120
GAACCTNGGN 130

SEQ ID NO:6584
LENGTH:80
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07762
SEQUENCE DESCRIPTION:
GATCAAATGA AAGGCCTATA ACTAAAATCA GCCAGCCCAT GGGCCNCACT AAAGGAACCT 60
NCCTCTGCTC CCTNTGCAAA 80

SEQ ID NO:6585
LENGTH:48
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07763
SEQUENCE DESCRIPTION:
GATCAACAAT TTTTGT TTTG ATTAATAATNA GTTTTTTGAA AGTTGAAA 48

SEQ ID NO:6586

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07764

SEQUENCE DESCRIPTION:

GATCCCCTGC TGGCTGGGGG CAGCTCCCAG GATATACTGC CTTACAACTG TTTCTAAAGC 60
CCATCCTNCT AACATGGCGA TTCCGGAGGT CAAGGCCTTG GGCTCTNCCC AGGGTCTAAC 120
GGNTAAGGGG GCCACATACC NGTTCCAAGG GGNNTGTCAA GTNGTGAAGT CGTTNTGN 178

SEQ ID NO:6587

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07765

SEQUENCE DESCRIPTION:

GATCAGATGG TTTATAAAAG TAATAACCAT AAAGCAAAAA ATAATTTGAA AGCCCGTCTA 60
TTCCTATGCT CANTAAAGTT AAGGTTTTTC TTCATTAA 99

SEQ ID NO:6588

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07766

SEQUENCE DESCRIPTION:

GATCCTTTGA GCCCAGGAGT TTGAGACCAG CTGGGCAAC ATAGTGAGAC CCTGTCTCTA 60
CCAAA 65

SEQ ID NO:6589

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07768

SEQUENCE DESCRIPTION:

GATCACAGGG TCAGGAGTTC AAGACCACCC TGGACAATAT TGTGAATTCC TGCCTCTACT 60
AAAAATACAA AAATTAGTCG GGCATGGTGG CGGGTGCCTG TGGTCCCAGC TACTCGGGAG 120
GCTGAGGCCA GAAAATCGGT TGAACCTGGG AGGTGGAAGG TGCACTGAGC CAATATCACA 180
CCAGTGCACT CCAACCTGGT GACGN 205

SEQ ID NO:6590

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07769

SEQUENCE DESCRIPTION:

GATCTCATAC TCAACAGAAG GAGACTCAGA GACTCCAGAA GGCACAGGAG CTGCCCCN 57

SEQ ID NO:6591
LENGTH:184
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07770
SEQUENCE DESCRIPTION:
GATCATGTTT ATTTACTGAT AAAACTCAAT ACCTAGAACT GCACCTAGCT CATGATGGTA 60
CCTAATAAAT ACTTCAATGA AATGATGTGG TGATGCATGC CTATAGTTTT AGCTACTTGG 120
GAGGGTGGCC TGAGCCCAGG GGTCTAGAC CAGCTTAGGC AACATAGCAA GACCCCATCT 180
CAAA 184

SEQ ID NO:6592
LENGTH:165
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07771
SEQUENCE DESCRIPTION:
GATCTGAATG GTTTTAATAA GTGCCTGGNA TTTCCCCTAC TGGCTCTCAT NCTNACTCTT 60
GCCGCCCTGT GAAGAGGTGC CTTCCACCGT GATTGTNAAG TTTCTGAGG CCTTCCCAGC 120
CATGTGGAAC TGTGAGTCGA AAATNAAACC TCTTTTATAA TTAAA 165

SEQ ID NO:6593
LENGTH:134
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07773
SEQUENCE DESCRIPTION:
GATCCAAGCT TAATTTTCAA ACAGCTTCCC AAAAAGCTGT ATCCTGAATA TCATAAAGTC 60
TATCATATGA TGTGTACTCA GTCATATTCT GTAGACTCAA ATCTTTTATC TGATTATACC 120
AGCTTTCCCG NAAA 134

SEQ ID NO:6594
LENGTH:148
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07774
SEQUENCE DESCRIPTION:
GATCTGCCCC CGTTGGCCTC CAAAGTGCTA GGATTATAAG TGTGAGCCAC CACACCAGGC 60
CCGTTTCATC CCTGNCTCAG CCTGCATGCC AAGCTCCCTN GGTGCCCGNC CACAGGTGTC 120
ACCCTTTNAG GAGAANGTGG CCTGGGGN 148

SEQ ID NO:6595
LENGTH:238
TYPE:nucleic acid

TOPOLOGY:linear
 CLONE:HUMGS07775
 SEQUENCE DESCRIPTION:
 GATCGCTTGT AGCTGGGAAC AGTGCTTACT TCAGGGAAAA CTGATTTTGA TAGAACCGAC 60
 TAGTTGAGTA TTAAACTGTT TTGGAAATAA TTTATATATC TAAGTGCTGA AATATATTTT 120
 TCTTCTCCCC ACTTATTCAA ATAAAAANGT TTTNATACTA TAAACTTTTC NNGGTTAGCG 180
 CCACGCAGTC CTTGTCAAGN TTGTNCTGGG GGNCAANAAC TTGATGTATA AAGCATGN 238

SEQ ID NO:6596
 LENGTH:102
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07776
 SEQUENCE DESCRIPTION:
 GATCTCTACT ACCANAAGGA AAATAGTTTA GGNGAAACCA GCTTTTANTG TTTTGTAAA 60
 ATTAGCTTCA CCCTGTNATG TTANCAAGGT ATGTCTTTGC CN 102

SEQ ID NO:6597
 LENGTH:65
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07777
 SEQUENCE DESCRIPTION:
 GATCGCGCCA CTGCACTCTA GCCTGGGTGA CCAGCCTGGG TGACAGAGTG AGNCTCCGTC 60
 TCAAA 65

SEQ ID NO:6598
 LENGTH:282
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07778
 SEQUENCE DESCRIPTION:
 GATCTAGAAG AAAGTATTGT ACGTTTGAAT GCAGATTTTN ATCCACAGAT AGTTGTAGTG 60
 TTTAGACATG ACAGGACCTA TCGTTGAGGT TTCTAAGACT TACTATGGGC TGTAACCTG 120
 TTTTNNAAA CTATTTTAGA AACCTGAGAC TTGCCGTCTG GCATTNAGT TTAATACAAA 180
 CTAATGATTG CATTTGNAAG NGTNCTTGA CCTTATTCT AAACGTCTAG NGCTCTGAAA 240
 TGTCTTGCTG GNNGGTATTA AACTATTTGC CTGTNGTACA TN 282

SEQ ID NO:6599
 LENGTH:173
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07779
 SEQUENCE DESCRIPTION:
 GATCAAAATGG CTTAGAGNTA GTCCTGGAAT ATTCATATTC AAAGATTCCT TATTAATGAA 60

TGTCTTTAAC TTAAATCTAC CCAATAATTG CAACATGGTT CTTGTACAT TTTCATTATA 120
TGGTGTTAAC AAGCTTCACT GCAAACAAAT AAATTACTTA AGTTATTTGN AAA 173

SEQ ID NO:6600

LENGTH:263

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07780

SEQUENCE DESCRIPTION:

GATCAGTGTA GCAAAATNAGG GATGAAGNGT TCAAACCTTT TGGCCCTTTC TTTCTTTNCT 60
AGGCTTCTCC CTCGCAGGGT GTTCCGTAGT TTCTTCTCGA GCCAATGCAT GTATTATAGC 120
AGCAGGTGTC TTTGTGCTTT CTCATCATAG TAACGTACTA CTTGTAAATA CATTTTNCTA 180
TTTNCATTT TTTTGTATTT TTTTTTGACA TTTTGTTC A TTGGTGTGCT GNGNGNNCC 240
CATGCCCTCA CTCCTTTAAG AAA 263

SEQ ID NO:6601

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07781

SEQUENCE DESCRIPTION:

GATCCAAAAT TCTCAACAAA ATATTAGCAA ATTGAACCCA CCAAGGTAA A 51

SEQ ID NO:6602

LENGTH:283

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07782

SEQUENCE DESCRIPTION:

GATCAAAGGC CTCTNAGGGG TGTCCACCAA AAACCTCTCC TTCAAAAGAG AAGACTCCGT 60
GCTTCAGGGC TATGACATCA ACAGCCAAGG GGAAGAGTCC ATGGGAAATG CAGAGCCCCT 120
TAGGAAGCCN ATCAAAAACC GGNGCNTANN GTTAANGAAA GTGAACTCCC AGGAAATACA 180
CATGCTCCCA ATCAAAAAC AACGGCTGGC CACCTTTTTT CCAAGAAAGT AAATAACGGC 240
TTTTTAAANT NNGTATGNTT ATAATATGGG GAAAGGTGCA TTN 283

SEQ ID NO:6603

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07783

SEQUENCE DESCRIPTION:

GATCGTTCAT CCGATTGCNA CGTTCCAAAG TGTCCAGGTT TTTAAGACCT TACAAATGAC 60
TCAGCCCACG TGCCACTCAA TACAAATNTT CTGCTATAGG GTTGGTGGGG CAGAGCTGTC 120
TTCCTTCTGC ATGTCAGCAC AGTCGGGTAT TGTCGCCTCC CGTATCAGTG ACTCATTAGA 180
GTCAATNNN NATAGATAAT ACAGATATTT TGGTAAATTG AAA 223

SEQ ID NO:6604
LENGTH:100
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07785
SEQUENCE DESCRIPTION:
GATCACCTGA GCCTGAGAGT TCCAGACCAN CCTGGGCAAC ATAGCGAAAC TNCATCTCTT 60
TAAAAATAAA ATAAAATTAA AATTAATACA AATAATTAAA 100

SEQ ID NO:6605
LENGTH:69
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07786
SEQUENCE DESCRIPTION:
GATCCCTTCC ACTCAGGATT CTCGCCGCT TTTCTAAGAA AATAATAAAA AAAAAATNCT 60
TGTTTCAAA 69

SEQ ID NO:6606
LENGTH:164
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07787
SEQUENCE DESCRIPTION:
GATCTGCCTG CCTCGGCCTC CCAAAGCGCT GGGATTACAG GCGTGAACCA CTGCGCCCAA 60
CCTTTGGATT ATTTTTTGTA GAGATGGGGC TTCCCTATGT TGGCNAGGCT GGTCTCAAAC 120
TCCTGGANTC CAGCCTGGGC GGCAGAGCAA AACCTTGTCT CAAA 164

SEQ ID NO:6607
LENGTH:73
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07788
SEQUENCE DESCRIPTION:
GATCACTCCT CTGCTTCAGC CTGGGCAATT GAGCCAGACT CTGTCTCAA AATAAACAAA 60
AAAACCTTGAC AAA 73

SEQ ID NO:6608
LENGTH:74
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07789
SEQUENCE DESCRIPTION:
GATCTTTTTA CCTGGATATG TCTGTAAGGC TCCTGAAAGA GACAAATAAA GTCAATATAT 60

TTNCACAGTG CAAA

74

SEQ ID NO:6609

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07790

SEQUENCE DESCRIPTION:

GATCTTAGGT CAAATAACAG ACTTGAGAAT ACTTTATAAA CTGCCATGAT ACAGCAAA 58

SEQ ID NO:6610

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07792

SEQUENCE DESCRIPTION:

GATCGNGNGC GTTAAACGCT GGTGGGCAGC AATAAGGGGC AGATGTGACC AGATGCCTGC 60

NTCCCCAGGG TGCCGAGGGC AGCAGGAAAA AGTGGGGACC TCGGTGCATT TGCCCCACCC 120

NTCCCCTNNC TGGGCTAAN 139

SEQ ID NO:6611

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07793

SEQUENCE DESCRIPTION:

GATCATCGAC ACTTCGAACG CACTTGCGGC CCCGGGTTCC TCCCGGGGCT ACGCCTGTNT 60

NAGCGTCGCT TGAAA 75

SEQ ID NO:6612

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07794

SEQUENCE DESCRIPTION:

GATCTGGGGG AGGAAGTTCA AGGAAGGCAC CACACCAGAA ATNGGACCTA AATTAAGGCT 60

TAAAGAATGA GCATGGCCAC ACTGTCAGTN AGTGTCTTT AGGTGGTAGG ACTATGGTTG 120

ANATTTTCNT TCTTCCTATC TTCCTGCCTT TTTCAGGNNN TNAATATTAA N 171

SEQ ID NO:6613

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07795

SEQUENCE DESCRIPTION:

GATCACGATG TAAATAATTA AGCATTTTGG TTGGATTCT TTTGTAATAA ACTATTTTGG 60
TACCATAAA 69

SEQ ID NO:6614

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07796

SEQUENCE DESCRIPTION:

GATCTAGGAT AGCTAAGTNA CCTACATGGT GACTGTTCGG TCTAATTCAG AAACAGAAGT 60
ACTAAAAGAA TACTAAAAG TTTTACCCA TTATCTCTAT CCCTGTTTN TTTTGCAAT 120
TCTCAGCNGN AGGGAGCAAG AAAATACACA GCAGNGGGGG GAATGTTTGT TTGCATCCTG 180
GCTTTCTCAA CCGCACTTTA CGTCCTTGAA TATNCTAGAT ATTTACTCCT TCAAGAAGTC 240
AGGAGTATAT CCAGGCCTAC CTATCANCCT N 271

SEQ ID NO:6615

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07797

SEQUENCE DESCRIPTION:

GATCACACCA TGGGAGCTTT CTACTAGAGG ACTTGAAAGA GAACTGAGGG GCCACAAAAT 60
AAACTTCACC TTCCATTAAG TGTTCAAGCA TGTCTGCAA TTAGGAGGGN GTTAGAAAACA 120
GTCTTTTTC TCTTTGTGA TGAAGACTGA AATTGTGCCG TGTTCCTTA TATGANTATG 180
CAGTATGGGA CTTTGAAATA ATGATTCATA ATAAAATACT AAACGTGTGT CTTCAA 237

SEQ ID NO:6616

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07798

SEQUENCE DESCRIPTION:

GATCTNAAAT AAAATTCAA CTCTACTTCT GTTGTCTAGT ATGTAATTGA GCTAATGATT 60
CATGGGAAT ATACCTTTTT ATACTCCTTT ATCATGGTAC TGTAAGTGA TCCATATTAT 120
AAATATAATT ATCTNAAGGN TTTTNAATTT TTNTNATGT CCAAGNGCCC ACGTGAATTT 180
NCTGGTGAAA GTNAGN 196

SEQ ID NO:6617

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07800

SEQUENCE DESCRIPTION:

GATCATCGAC ACTTAGAACG TACTCCNGNC CCCGTGCTCC TCCAGAACCT ACGNCTGCAC 60
TAAGCGTCGA TTA 75

SEQ ID NO:6618
LENGTH:50
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07801
SEQUENCE DESCRIPTION:
GATCACGCCA CTGTACTCCT GGGCAACAAA GCGAGACTCC CTGTCTCAA 50

SEQ ID NO:6619
LENGTH:208
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07802
SEQUENCE DESCRIPTION:
GATCGAGGCT TGTNATGCCT TGTGAGAAAT AAGGGCCTTA ATTTGTACTG TCTGCGGCAT 60
TTTTNATAAT ATTGTATATA GTGACTGACA AATATTGTAT TACTGTACAT AGAGAGACAG 120
GTGGGCATTT TTGGGCTACC TGGTTCGTTT TTATAAGATT TTGCTGGGTT GGTTTTTTTT 180
TTAATTAAAA AGTTTTGCAT CTTTAAAA 208

SEQ ID NO:6620
LENGTH:151
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07804
SEQUENCE DESCRIPTION:
GATCAGGAAG CCAAACCTAA GAAAGAGCTT GAAAATACTG CTCTAGAGCT TAGTCAGAAA 60
GAAAAACAGT TTAATGCCAA AATGCTGGAA ATGGCACAGG CTAACCTCAGC TGGAATCAGT 120
GATGCAGTGT CAAGACTGGA AACAAACCAA A 151

SEQ ID NO:6621
LENGTH:33
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07805
SEQUENCE DESCRIPTION:
GATCTNGGCA ACACAGTCAG ACTCCGTCTG AAA 33

SEQ ID NO:6622
LENGTH:321
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07807
SEQUENCE DESCRIPTION:
GATCCGGACG ACGTAATCAC TGACATTNAG ATGGTGGACG AGGGCTGGTG GCGGGGACGT 60

TGCCATGGCC ACTTTGGACT CTTCCTGCA AATAATGTCA AGCTTCTGGA GTNACTAGAG 120
 CTCACGTCT ACTGCAACTN TAATTTCCCA TGTCCAAAGN GGNTCTGCCT CCACCCCCTC 180
 CCTATTCCTG CTGCAAAATNT CTAACCAGAT GAGGTTCTGG ACAGACTTCC CTCTCCTGCT 240
 TCATTAAGGG CTTGGGGCAG AGNCAGCATG GGAAGGAGG TCCCCTTCCC CAAGAGTCCT 300
 CTTCTATCCC TGGATGAANN N 321

SEQ ID NO:6623

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07808

SEQUENCE DESCRIPTION:

GATCCCAGCA CCCATTCCTT AGCTATTTAT CCCTTTCCTG GTTCCGAAA GGCAATTATA 60
 TCTATTATGT ATAAGTAAAT ATATTATATA TGGAAA 96

SEQ ID NO:6624

LENGTH:242

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07810

SEQUENCE DESCRIPTION:

GATCTAGGCT TCTNGCCTCA CTCCCATTAG GAATAACACC CAGCAAAATG GAACTATCCA 60
 AGCACTTCCT ATACATCTGT CTCCCATTG TCTCTTAAGA AGTTTCTTCA GCTGGTGCGC 120
 CATCATCATC ACCATGACTG CCCCAGCTC TTGAGGAAAG GNATAATTAC CTCCATGGTG 180
 TTGCCTCCTA TTTGCCTAAA GCACCAGAAA TAATATTAAA TACACCAGAT TAACTACANA 240
 AA 242

SEQ ID NO:6625

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07811

SEQUENCE DESCRIPTION:

GATCCCGTCC TTGTCAGAGA AGTGTTCCTT GGATGAGCGC CCAGAGGGAG GAGCCCATGG 60
 CCCTTTCTTC TGTNACTGAT TAAAAATCTC GATGAAA 97

SEQ ID NO:6626

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07812

SEQUENCE DESCRIPTION:

GATCCCTTCA AGACTTTGTC ACAGCCTCTA TCACACATCT GTTTTCTCG AAGNAAAAA 60
 TATAATTAAT AAAAATGTTT TACTCTTTTA CACTGAAA 98

SEQ ID NO:6627
LENGTH:36
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07813
SEQUENCE DESCRIPTION:
GATCCCGNTG TTCTTAATAA ATCCTGACTT CCCAAA 36

SEQ ID NO:6628
LENGTH:35
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07814
SEQUENCE DESCRIPTION:
GATCAAAAAT AAATACTGCA CATAAANAA AAAAN 35

SEQ ID NO:6629
LENGTH:77
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07815
SEQUENCE DESCRIPTION:
GATCTTGTTT TTATTGTTAT TGCTTTTATT ATNATTGCTT TTATTATCAT TAAAACTCTA 60
GTTCTTGTTT TGTCAAA 77

SEQ ID NO:6630
LENGTH:98
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07816
SEQUENCE DESCRIPTION:
GATCCAGTAC AGAAAGGAAA GGNTATTTAT TGATTAACAG AAGTTGTCTT TTTAAAAGTG 60
TTTATTTTGT GCAATAAAGA GCACAACATA ATCTCAAA 98

SEQ ID NO:6631
LENGTH:132
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07817
SEQUENCE DESCRIPTION:
GATCAGGGAA CAAAATCCTC TCCTTGTTGA AATATCCCAT GCAGTTTGTT GATACAACTT 60
AGTATCTTAT TGCCTAAAAA AAAATTNNCT TATCNTTGT TCAAAAAAGC AANNTCATGG 120
ANAATTTTGT TN 132

SEQ ID NO:6632

LENGTH:304

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07818

SEQUENCE DESCRIPTION:

GATCAACGGC TGACCTTCTG GCGTCTGGGG CATGGTGAAC CCACCTNCAT GAATAGCACT 60
GTGTTCCATG TGCCTGANGT GGCTGACATG GACTGCTGGC CTGTAAGCCC TGAGTTTGGC 120
CACCGTTGTG CCCTTGGGGG TCAGGGGNTT NAGGTTTACA ACTGGTATGA CTGAGGTATC 180
CTGCGGTGGC TGGCGTGCTG GGCATGGGGC NTGCTCACAG ACAGNATGGA GCAGGGAAGG 240
GCTGTCTCTGT GCCCATGCTC AGCTTGNCCT TNNNGNNGAN GGAGGTNGTG GCCGTGGGTN 300
CCTN 304

SEQ ID NO:6633

LENGTH:35

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07819

SEQUENCE DESCRIPTION:

GATCTCAAAT AAAATTNCTG TAAAGAATTT CAAA 35

SEQ ID NO:6634

LENGTH:185

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07820

SEQUENCE DESCRIPTION:

GATCCAAATC GGGCCATCTT CATTGCCATG AGTGTTCGGA CAGGCTCTGC GTGCCAGGCA 60
ACAGTGGGCA GACAAAGGGC TCCCTGGCTA CTGGGAAGAT ACAGAACCAT CCTGTGAAAA 120
TCATTTACAG ACTGGAGACC TTCTTTGCTA TTACTTCTTT CATTACAAT GACCTCTAAT 180
TTAAA 185

SEQ ID NO:6635

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07821

SEQUENCE DESCRIPTION:

GATCCGTGGC CTGAAGGTTT CTAAGNCGT CAAGAAATNA ATATCTTACA CTGTGATTCT 60
GTGAGGAAAG ACTGGTAACC CAAAATCTC TTCTCTAATG TATTTTNA CGNAAATGAC 120
AATATTTCTT TAATAAGTA TTTATACCA A 151

SEQ ID NO:6636

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07822

SEQUENCE DESCRIPTION:

GATCCAGGTC TAGGCCCTTN ATCTGCTGCT CTGTGGCCCA GGCAGGTTT GCTTGACCTC 60
TGCCTCAGTT CTCGACTCTA AAGGACATAC TGACCTACCT CACAGGGGTG TTGTNAGGAT 120
TAATAAATNT TGGTACTCTG CTTTGGAAT NTGAAAAAAA AGAAA 165

SEQ ID NO:6637

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07823

SEQUENCE DESCRIPTION:

GATCAAATTC AGTGTTGTAT GTATGTTTAT GGCAACATTT TGAATAATAA AATTAAATGT 60
TTNCTTCAA A 71

SEQ ID NO:6638

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07824

SEQUENCE DESCRIPTION:

GATCTCAATA CTTCCCTGAC ATCCCTTAAG ACTCAAGTCT TGATACTTTG TCTGCTCTCT 60
GGCTCTTTCT TTGTCATTAC TATNATNNA ATCTTCTTGA TGTGACTCT TGCTAAAATT 120
TTTNGTCTTC CTTATTGTTA ATGCTTATAG AAAATGATTC CTTGTTATCT TTNAGCCCAT 180
GTCATCCGAA TCATTGCTG TTTCTAGCCT AGGTGCTTTG ACTATGCCAG CTTGTATTTT 240
TNCAGAATTT NCATTANCTA TATGTGTGGT ATTGTAGGCA TTACCATATT TNAATAATAA 300
NTTTAGGCCA TTGCTTCAA TCACAACAAA NNACAACNCA ACNNACNN 348

SEQ ID NO:6639

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07826

SEQUENCE DESCRIPTION:

GATCTGAAGA GTGAAAATAA TGCTTTAAAT NAAAAATTGA AATCAGAAGG AAA 53

SEQ ID NO:6640

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07827

SEQUENCE DESCRIPTION:

GATCTTTTNN AATTCAGTAC AACCCATAAT CATGTAAATN CTCATTTNCT TTAGGNCATA 60
AAGAGAGCCC TAGGGTGCTC TGAATGTGTA CATGTNCTTG TCATAAAATG CATACTGTTG 120
ATACAAA 127

SEQ ID NO:6641
LENGTH:23
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07828
SEQUENCE DESCRIPTION:
GATCTGTTGT TACTTAACAG AAA 23

SEQ ID NO:6642
LENGTH:85
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07829
SEQUENCE DESCRIPTION:
GATCTTNATG TTAATNTTCA GAGGACTCTA GACAACAAC TAGCAACTGA AGCTTATNAA 60
AGAAGAATTA AGCGCCTTGA GCAAA 85

SEQ ID NO:6643
LENGTH:113
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07831
SEQUENCE DESCRIPTION:
GATCTTTTGT GGATATTTGT CACTTGGTTT CAGAAAGTNC ACAAATGTAG CAACAGCTCA 60
CATGACTGAG TAGGTAGAAA ATGTGAAATA AATCTCATAT ATATNGTTTT AAA 113

SEQ ID NO:6644
LENGTH:54
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07834
SEQUENCE DESCRIPTION:
GATCGTCCCG CTGCACTCCA GCCTGGCCAA CANAGCGAGA CTGTCCCCC CAAA 54

SEQ ID NO:6645
LENGTH:59
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07835
SEQUENCE DESCRIPTION:
GATCTTGCTC CTCTGAAGG AACAAAGGTG CCTAATAAAT ACATTNCTCC TTTATTAAA 59

SEQ ID NO:6646
LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07836

SEQUENCE DESCRIPTION:

GATCCAGGGT CCCCCAGGGT GGGCTCAGCT CCAGGGAGAG GCCACCCACG TGGCAGCCCC 60
ACCTCTTGAG AGCCCCAGT GCCGGAGCAG AAAGGACCCT GGACCCNGAG GCAGNNACTG 120
CGGGGTGGTA GAAAAGGTAG AGTAGGCTGT GGCAATGGAA TAAANCACGA TAAAAACGT 180
TAAA 184

SEQ ID NO:6647

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07837

SEQUENCE DESCRIPTION:

GATCCTTCCC CTGCAACCAG ACAGTCTACA ACTGCCCCCT CCAGCCCATT TNCTGCCGTG 60
AAACCCACAG CAGCCANACC AGGCTCTGGA ACCCTTTTTC GACTAGGNCA ACTCTGGNC 120
ACCAGGNGGG GTAGAACACC NAACACCAAA CTGTACAGAN TNTCCN 166

SEQ ID NO:6648

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07838

SEQUENCE DESCRIPTION:

GATCTNTNAT GGTACGACAC ACCCGCNTAC CCAGTTCCTC CAGTGGAGAC CAGTTGGGTA 60
GTGGTGACTG GGTACGCTAC AAGCTCTGCA TTGTNTGCTG ATGGGACGCT CTTCAAGGTG 120
CAAGTAACCA GCCAGAACAT GGGCTGCCAA ATCTNAGNCA ACCCCGGTGG AAACACTNAT 180
TAAAAAACC CCAGAGGACA CCAACAGGTG TNTATCTGGN CNTGN CN 227

SEQ ID NO:6649

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07839

SEQUENCE DESCRIPTION:

GATCTTTGGG GTTGAGTGA AGGTCTTATC TGCATTAATT TTGTTAATGC ACATTGTAGA 60
TGTGGAGAAC ATCTTGACCT GCATAAGGAT TGCCTCTCAT TTTATTGTGT AGTGCTTTTT 120
CGAAATATTT ACATTCTTT GGTCCCATG TTCATGTATT CTGGAGAAGT AAAATTTCTT 180
GATTACTGGG CAGACCCTAA AACTACTAAG AGAAACATAA CATGTAGTTA GCTGTCTGCT 240
CATGGTTTGT TCAAATCTAA GCTAACCTTA ATGGTGCTGT GTCCGCTGTN CACAGAAAAAC 300
GGCCTTAAAG TAGN 314

SEQ ID NO:6650

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07840

SEQUENCE DESCRIPTION:

GATCCCCTCC CCTGCCCCTG GGTTCCTGCC TTCCNTCCTC AAGCAGGCAC NNAGGCTTTA 60
GAGAAGTATA GGGGGCTTCT CCCCTGCNGG GCTTACCACA NNTN 104

SEQ ID NO:6651

LENGTH:358

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07841

SEQUENCE DESCRIPTION:

GATCAAGATG CCGAACCTG TGTTCAGAAC CTCCAAATAC TGCCATGAGA AACTAGAGGG 60
CAGGTCTTCA TAAAGCCCT TTGAACCCC TTCCTGCCCT GTGTTAGGAG ATAGGGATAT 120
TGGCCCTCA CTGCAGCTGC CAGCACTGG TCAGTCACTC TCAGCCATAG CACTTTGTTT 180
ACTGTCCTGT GTCAGAGCAC TGAGCTCCAC CCTTTTCTGA GAGTTATTAC AGCCAGAAAAG 240
TGTGGGCTGA AGATGGTTGG TTTCATGTTT TTGTATTATG TATCTTTTGG TATGGTAAAG 300
ACTATATTTT GTACTTAACC AGATATATTT TTACCCAGAG TGGGGATATT CTTTGTAN 358

SEQ ID NO:6652

LENGTH:46

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07844

SEQUENCE DESCRIPTION:

GATCCAGTTT GGGATTATGA AATAAACCAC AAATNAAAAT TTAAAA 46

SEQ ID NO:6653

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07845

SEQUENCE DESCRIPTION:

GATCTGGGGG GATGGAAAGC AAAATAAAGG AGGTGCCTGG NTGCATTATT TGCAGTGGGC 60
AAA 63

SEQ ID NO:6654

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07848

SEQUENCE DESCRIPTION:

GATCCACCCA CCTCGGTCTC CCAAAGTGCT GGGATTACAG TCTTGAGCCA CCGGGTGACC 60
GTCTTACAGG GATATTTTNA ATCCCGTNAT GGACTCTGTC TCCAGGAGAG GGGTCTATCC 120

ACCCCTGCTC ATTGGTGGAT GTNAAACCAA TATNCCTTTC AACNGGTGNC TGNTAGGGAA 180
AANCTACTCC TCATTATCAT CATTATTATT GCTCTCCACT GTATCCCCTC TACCTGGCAT 240
GTGCTTGTA AGTNCTAGTT GTTCAATAAA TTTGTNAATA ATGCTGTAAA 290

SEQ ID NO:6655

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07849

SEQUENCE DESCRIPTION:

GATCTTCCTG GAAATNAGCA GTGACTAACG CTCACATAAC TGGTTTTTTT TTTNAACTGG 60
GCTGATGAAT ACATTTACCT ANGAACTCA TTTCGTTTTA CTTAAGAGGG GANGTGCAGT 120
TTTNTTTTGG NAGTTCAGAN TCCAN 145

SEQ ID NO:6656

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07850

SEQUENCE DESCRIPTION:

GATCCTCTGG TTTNTTCCAT TGGGGCGGAG TCGGGGGTGG AGGGAGCTGG CCACAACCCA 60
CTGCTCTGAT GGGTGGTTTG TCCAAGNATG CTGAATGTAA TGCCTGGTCA ATGTGGAAGC 120
CCATNAGGTT GCCCAGGGAA GCCTCCAAAA GCTGGGATGC TTGAGGGTAT CCAAGTTGAA 180
AAAGACAAAA TCTGACCATC AGCCAGTGAC AGTCCTGGCA AATNAAGGTG GGGCGGGGCA 240
GTNAGGGGTG GGGANGGTG AATNNTTCAT TATTCCACCC NGCGGTTTNC TGGGGTGAGG 300
GGGAAGANTC GNTGCTTGCT TTGGGCACTG ANGGTTTTTC TGTNNGGGGA N 351

SEQ ID NO:6657

LENGTH:346

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07852

SEQUENCE DESCRIPTION:

GATCATGTGA AGAAAACAGT GACCATTGAA AATNACCCTC ATCTGCCACC ACCTCCCATG 60
TGTTCACTTC ACCCATGCAG GCATGCTGAG GTGATGAAGA AAATCATTGA GACTGTTGCA 120
GAAGGAGGGG GAGAACTTGG AGTTCATATG TATCTNCTTA TTTCTTGAA ATTTGTACAA 180
GCTGTCATTC CAACAATAGA ATATGACTAC ACAAGACACT TCACAATGTA ATGAAGNGAG 240
CATAAAANCT ATCCTAATTA TTGGTTCTGA TTTNAAAGA ATTAACCCAT AGATGTGNCC 300
ATTGNCCATA TTCATCANTA TATACAGTTT CTCTANTAGG GGAANN 346

SEQ ID NO:6658

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07853

SEQUENCE DESCRIPTION:

GATCCACACG CTGGCCCAGG AGTTCGACAT TNACCGCAAG GTGGGCGNAG AGCCTGTNCC 60
 TGTAACGAGG GATNATTCCA GCAATGGCTT TCCCCGCACT CAGCATGGTT CCCCAGTAAC 120
 CTCCTGCTGA CCAGCTCCTC GGGGGAGCTG TGGAGGATGG TCGCATCGG TGGACAGCCC 180
 CTGGGGCTTTA ATGAATGTGG CATCGTGGCA CAGATTGCAG GTCCCCTGGC TGCCGCTGAN 240
 ATCTCTGCCT ACTACATCAG CACCTTCAAC TTNNGNNNG GCCTGGTTGC CCGAGGACGG 300
 TATCGGCAGC GTCATCGNGG GTCCTCCAGN GGNGGGNAGG AATGN 345

SEQ ID NO:6659

LENGTH:47

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07854

SEQUENCE DESCRIPTION:

GATCTTTGTT AAAAAAATAA AAAGTACTAA CATTACAGAC ATGTAAA 47

SEQ ID NO:6660

LENGTH:35

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07855

SEQUENCE DESCRIPTION:

GATCCTGCCA CTGCAGAGTG AAACCCTGTC TCAAA 35

SEQ ID NO:6661

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07856

SEQUENCE DESCRIPTION:

GATCCCCCG AAGTCTTCAC AGGCACTGCA TCGGGTTGTC TGGCGCCCTT TTCCTCCAGC 60
 CTAAACTGAC ATCATCCTAT GGA CTGAGCC GGCACTCTC TGGCCGAAGT GGCCGCAGTG 120
 TTGCCCCCGA GCTGCCCCCA CCCNCTACA GGGTCCCTCA GNTTATAGGT GCCCAGGCTG 180
 AGGTGAAGNG GCCTGGGGGN CCTGCNTTCC GGGCGCTCCT GGACCNTGGG GCAAACCTGT 240
 GACCNTTTTN TACTGGANTA GAAATNNGTT TTATNATTN 279

SEQ ID NO:6662

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07857

SEQUENCE DESCRIPTION:

GATCATAATA TAATTGGTTA CAAAGTGGA GTGCCAGCTG GCTTAAGTAC CCAAAGAANA 60
 GAATGCAGCA GCCTAACTTA GTGTTACCAT ATGTTACTGA ATTTGAAACT GACCTTTTTT 120
 CCCACCCTAC TTCACACACC TAAAACTCTT TTTTGTCTAG ACCAAAGNGC AAA 173

SEQ ID NO:6663

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07858

SEQUENCE DESCRIPTION:

GATCCAGTTG TCATCCACCA CAGACATCTC ACATCAGATA CAGACAGTTC CAAGATTGAC 60
AACAGAGAAC AACCTGCTGG AAAGACCTGG GCAGAAATGG AGAGCCCTGC GGGAAACCATG 120
CTACATTTTC ATCTAAAGAG AGAATGCACA TCTGATGAGA CTGAAAGTNC TTTNTTGTTT 180
TAGATTGTAG AATGGTATTG ANTTGGTCTG TGGAAAATTG CATTGCTTTT ATTCCTTTGT 240
GTAATCAAGT TTAAGTAATA GGGGATATAT AATCNTAAGG CNTTTTAGGG TGGCN 295

SEQ ID NO:6664

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07859

SEQUENCE DESCRIPTION:

GATCATGGTC AGANTGGAGT ACCTGGGGGC TGTCCATGCC CCCCTTTGGA CCTAATCCTA 60
CCCGTCCCCG CCAGCCCCCTC TCCACACCNT TNCTCCCCAA GTACCCGCCC ACCGTTTCCA 120
TGGTCGAAGG TCAGGGCGAG AAGAACGTGA CCTTCTGGGG GAGACCGCTG CCACGGTGTG 180
AGGAGCTACA AGGCAGAAG CTGGTGGTGG AGNGNACG ACCATNTNTA CACGTGCCTG 240
CTTGCAAAGA CCCTGAGGAA GAGGAACTCT AACANTTNT TCCTN 285

SEQ ID NO:6665

LENGTH:47

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07860

SEQUENCE DESCRIPTION:

GATCCTGTTA GTCAGTGTGG TTCATCAAAT AAAACTGTTT GTGCAA 47

SEQ ID NO:6666

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07861

SEQUENCE DESCRIPTION:

GATCTCTAGA GCTGTCTTGT CGCCGCCAG GATTGACCTG TGTGTAAGTC CCAATAAACT 60
CACCTACTCA TCAAA 75

SEQ ID NO:6667

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07862

SEQUENCE DESCRIPTION:

GATCCTGCCT GGNCAACCCT TTCCTGTCCC AGGCCCTACA TTCAGCAGAA ACGCACTTTG 60
GACTTTNTCC TTTANATAAA AGAAAGACAT CCCAGGAGAA GGACAAACCA GAGGAGTGAA 120
CCAACAAAGA GTACCTAGGA ATGGAAGTTG AGCCCTGGAA TGGGGCTCCA TGGAGAGGTG 180
CATAGGACTC GGCAGAAATG GCCTCTCCCC AAAGCCTCTT TTNAGAGGA GAGGGAAGCC 240
TATTTTNTTA ACTGGTTTGG GATAGGGAAT GGGGTTNCTT TTTNTN 286

SEQ ID NO:6668

LENGTH:95

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07863

SEQUENCE DESCRIPTION:

GATCCCCGCC TGGCCAGNG CAGGCACGGG TGGTCCCNGT TCCACCCCAA GAGAACTCGC 60
GCTCAGTAAA CGGGAACATG CCCCTGCAG CCAA 95

SEQ ID NO:6669

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07864

SEQUENCE DESCRIPTION:

GATCTCCTAA TGATGTATTG TGCCGTGGNA GTACTGTGTG TGAATAGCAG TAGTGGGGGC 60
AAAAGCAATC TTCTCATTTG GAAATGTTGT AAATAATTTT ATTATATAGT GTTTTGGATG 120
TATTTGTTGT AGAAATGGNC CAGTGAATAA AGAGAATCTA AGGNTTTGTA CAATGTGAAA 180
TAACGTGTTA AATAANTGTC ATTGTCATAG AAA 213

SEQ ID NO:6670

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07865

SEQUENCE DESCRIPTION:

GATCTAAAGA CCCGGGAGCG AGAAGCCAAG GCCAGGTTCT GGGNGNAGGG CCCAGAGAAG 60
CAGAACAGCC CAGAGCCCCA GGTGCCTGGC CTGGGCTAGA CCTCTGGAAT TGAGATTAAA 120
CAATTTGGAG TTGGAAA 137

SEQ ID NO:6671

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07866

SEQUENCE DESCRIPTION:

GATCCGCTAC AGCAACGTGA AGAAGCTGGA AATAAAGCCA AAGTACCCGC ACTGCGAGGA 60
 GAAGATGGTT ATCATCACCA CCAAGAGCGT GTCCAGGTAC CGAGGTCAGG AGCACTGCCT 120
 GCACCCCAAG CTGCAGAGCA CCAAGCGCTT CATCAAGTGG TACAACGCCT GGAACGAGAA 180
 GCGCAGGNTC TACGAAGAAT AGGGTGAAAA ACCTCAGAAG GGAAAACTCC AAACCAGTTG 240
 GGAGGCNTTG TGCAAAAGGN CTTTTCAGN TTAAAA 276

SEQ ID NO:6672

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07868

SEQUENCE DESCRIPTION:

GATCCTGGAC CAGTCAGAAG CCGAGAAAGC TCGCAAGGAA CTTTGGAGC TGGAGGCTCT 60
 GAGCATGGCC GTGGAGAGCA CCGGGACTGC CAAGGCGGAG GCCGAGTCCC GTGCGGAGGC 120
 AGCCCGGATT NAGGGAGAAG GGTCCGTGCT GCAGGCCAAG CTAAGGCAC AGGCCTTGCC 180
 CATTGAAACG GAGGCTGAGC TCCAGAGGGT CCAGAAGGTC CGAGAGCTGG AACTGGTCTA 240
 TGCCCGGGCC CAGCTGGAGC TGGAGGTGAG CAAGGCTCAG CAGCTGGCTG AGGTGGAGGT 300
 GAAGNAGTTC AAGCAGGTTG CCAGAGGCCA TAGGCCAGC ACCNTNAN 348

SEQ ID NO:6673

LENGTH:325

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07869

SEQUENCE DESCRIPTION:

GATCTGAGGC CAGCTCCCGT TCCCTGAGCT GCCTCCTGCT TCTCCCTCAA AGTCTCTAC 60
 CCTTCTCTTC CTCTTTNAAG CCCTCTCTTC CTCGCTTTCC TTCCTACCTA GCTCCTTGTT 120
 GGTGAGCTTN TTGTGCCCTA ATNCTGTGAC CCAGGCCCTT ACACCANTTT NCACCTTCCT 180
 GTNCGGAGNA CAAGGNCACT AGCTGCCCCA GGAAGTTGTG TGATTTTAAA TCACTTCTGT 240
 CTTTGCTGGA AAGTGTATTT GTGCATAAAT AAAAGTCTGN GGATTTGTGA AAAANAAGA 300
 AAAANACNNA AAAANAACAN TNAAN 325

SEQ ID NO:6674

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07870

SEQUENCE DESCRIPTION:

GATCAATGGA ATAGAATTC ATTGGAATG TAAACACTT TCCCAACAAT GGTCATGACT 60
 TTCTNCTGTT TTTGAGAAGA GTTTCATATG CTGGACCACA TTTNAGCTTT TATTGTTTTT 120
 TTTTNNCCAT TGTCAAAAAA GTTAAGCAAC AAGTGGCCAC ACTTTTACGT GNCTACAACC 180
 TGGAGTTCTG CAAAGAAGGT AATATTTNCT TGGNCTTTGC CTAANGTTAT CTCCCCATTC 240
 TATGGTTACA TTTTATTTTG GCCTATGGGG CCTTCTAATA CGTTTTGGTA AAGAGGCGAG 300
 TNTAANGNAA TTNCTGTGCA AATTTACCT CAAAGGTAAT TTCNTGCN 348

SEQ ID NO:6675

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07871

SEQUENCE DESCRIPTION:

GATCAACTCT CTAATGGTGC TAATGGCAAT CTAGCTAATG TGCAAATTTA GGAAGTCTTC 60
AGTACTAAGT ACATAATTTT CAAATAATAT TTTTNAATTG TCTACTTTGG ATGTTAGCTA 120
TGTCTTGTGN GTATAGGATT CCAATTTTAA GCACTATTTT GATGCAAAAN AATGCATAAN 180
NAATTTANTT TATAAA 196

SEQ ID NO:6676

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07872

SEQUENCE DESCRIPTION:

GATCATAAAA ATGTGCGCCA ACAACGGCAG GCGCCATCTA AAGCAGCTTC TAAACAGAGA 60
GAGATGCTCA TNGAAGATGT NGGCAGTGAG GNAGAACAAG AAGAGGAGGA TGAGGCACCA 120
TTCCAGGAGA AAGATTCCGG CAGCGATGAA GATTTCCTAA TGGACGATGA TGACGNTNGT 180
NACTATGGCA GTTCGAAAAN GAAAAACANA TNNN 214

SEQ ID NO:6677

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07875

SEQUENCE DESCRIPTION:

GATCCCCCAA GCCTGACGNG CCGNTNACCA TCCCCTCTGC CCTGCAGAGN CAGCCGCCAA 60
GGNTGACCTC AGCTTCGGAG CCACCTCTGG ATGAACTGCC CCCAGCACCC GCCCCATTAA 120
AGACCCGGAA GCCTGAAA 138

SEQ ID NO:6678

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07876

SEQUENCE DESCRIPTION:

GATCCATCGC AGAGTCCTAA AGAAGAACCC ACTGAAAAAN TTGAGANTCA CAAGCTCCGG 60
GTGGATAAGG CAGCTGCTGC AGCANGGCAC TACAAGCCAA ATCAGATGAG AAGGCGGCGG 120
TTGCAGGCAA GANGCCTGTG GTAGGTAAGA NAGGAAAGAN GGCTGCTGTT GGTGTTAAGA 180
NGCAGAAGAN GCCTCTGGTG GGAAANN 208

SEQ ID NO:6679

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07878

SEQUENCE DESCRIPTION:

GATCTCCTGG AGGCTACAGG GAGCAGAGGC GATGCCC GCA GCGGCGAGCG TGTTCCTCAGG 60
AGCAGGTGGG CAGGGGCCTT GCAGACTCTT CATTTCTTCC TTCCCTTATC ACCGTTAGCC 120
ATTTTATG GATAGAGATA CAGAGGAGCT CCCATTACAA AGCGCCATTA AACTGTCATC 180
TGTGCAAA 188

SEQ ID NO:6680

LENGTH:35

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07879

SEQUENCE DESCRIPTION:

GATCTTGGTG GTAGTAGCAA ATATTCAAAC GCAAA 35

SEQ ID NO:6681

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07880

SEQUENCE DESCRIPTION:

GATCTTCCGT GGTGAGAGTG CCACTGCGGG AGCTCTGTAT GGTCAGGATG TAGGGGTTAA 60
CTTGGTCAGA GCCACTCTAT GAGTTGGACT TCAGTCTTGC CTAGGCGATT TTTCTACCA 120
TTTGTNTTTT GAAAGCCCAA GGTGCTGATG TCAAAGTGTA ACAGATATCA GTGTCTCCCC 180
GTGTCCTATC CCTGCCAAGT CTCAGAAGAG GTTGGGCTTC CATGCCTGTA GCTTTCCTGG 240
TCCCTCACCC CCATGGCCCC AGGCCACAG CGTGGGAAC TACTTTCCCT TGTGNTN 297

SEQ ID NO:6682

LENGTH:22

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07881

SEQUENCE DESCRIPTION:

GATCCAAGAT ATCACTTAGA AA 22

SEQ ID NO:6683

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07882

SEQUENCE DESCRIPTION:

GATCCAGCTG TGGTTCCAGA GCAGTGAGCT GGTGAGCTGG GCAGATGGGG GCCAGCACAG 60
CAGNATCCAC CCAGNCTGAG GCTCAAGCTG CCCTTACCAC CCCATCCCC ACGCAGGACC 120

AACTACCTCC GTCAGCAAGA ACCCAAGCCC ACATCCAAAC CTGCNTGTCC CAAACCACTT 180
ACTTCCCTGT TCACCTNTGN CCNACCNCAG CCCAGAGGAG TTTGNGCCAC CAACTTCAGT 240
GNCTTTTGT ACCCNAAGNN AGCACAAGAT TGGACCAATA NTTTTGNAG TN 292

SEQ ID NO:6684

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07883

SEQUENCE DESCRIPTION:

GATCTGCCCTT AGCCTCACTG CTTGCCCCTA AGTGGTGGA TTGCAGGTGT GAGCCACTGT 60
GCTGGCCTCA AATAGTTTTN ATCAAAGCTA CTTCAATTAG TGGTTAGCAA GGCTTAAAGA 120
CTAATTCAGT GCTTTATTTT NACACTNGNT CGCAACATGT TGCTTTTTTN CCTGTGTCCT 180
ATGGGACCTA GTCATCTGTA TGTNAGATTC ACAGAGGAAT TAAAGAGATA AACATGCATG 240
TNCTAAA 247

SEQ ID NO:6685

LENGTH:37

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07884

SEQUENCE DESCRIPTION:

GATCCACAAC TACACACATC ATAACCACAC CATCAAA 37

SEQ ID NO:6686

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07885

SEQUENCE DESCRIPTION:

GATCTCTGAG GAGTCCCTG GGGACAACCTG AGCAGCCTCT GGAGAGGGGC CATTAATAAA 60
GCTCAACATC ATTGNACNAA A 81

SEQ ID NO:6687

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07886

SEQUENCE DESCRIPTION:

GATCAGCCTT TCCAGGTGCT TTAGTCGTTT GCCTAGACAC GTTCCTGTGCT CCTCTGACAG 60
CTGCAGTTGC TCTGCGCTGC TAGACATGGT GGACATTNA GCAGCCTGAC CTGTGGGGAG 120
GGGGTCTCTC CCGAAGAGTT TCTGTTTTTA CTCAAAATAA TGTTATTCTC AGATGCTTGA 180
TGCACTGTTG GAAATGTGCT CNATTTAATC ATGCAGATAA ACCATTATAA TGTCAAA 237

SEQ ID NO:6688

01926

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07887

SEQUENCE DESCRIPTION:

GATCTCTTGA GCCCAGGAAG CCGAAGCCAC AGTGAGCTGT GATTGCACCA CTGCACTCCA 60
GTCTGGGTGA CAAGAGTGAG ACCCCATCTC AAA 93

SEQ ID NO:6689

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07889

SEQUENCE DESCRIPTION:

GATCGCAGCA TTGCACTCCA NCCTGGGCAA CAAGAGTGAA ACTCTGNCTC AGAAAAGAGA 60
AA 62

SEQ ID NO:6690

LENGTH:221

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07890

SEQUENCE DESCRIPTION:

GATCCTCCTG CTTCAGCCTC CCAAAGTGCT AGGATTATAG CCACCGCACC TCGTCTTGAA 60
ATAGCCTTTT AAATGTTTAC CTCAGCTTGC CTCACAGTGG GTCTGTTTCT GGTTCCTCAG 120
ATGCATAAAG GAAGACATAT CCCTCCCCTG GGNAGCAAGG CTACAATGGG AGGGAGGGAG 180
AACATGGGAG CATGTGAATA AAATGGCATT AANTACTGAA A 221

SEQ ID NO:6691

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07891

SEQUENCE DESCRIPTION:

GATCATCAAG AAAAAAGAAA CTAAATGGA CACTTTTAAT GCTGCAAATN AGCTTGTCGT 60
GAAGTTACCT GATTGTNTAA TTAGAATGAC TACCACCTCT GTCTGATTCA CCTTCGCTGG 120
ATTCTAAATG TGGTATATTG CAAACTGCAG CTTTCACATT TATGGCATTG GTCTTGTTGA 180
AACATCGTGG TGCACATTG TTTAANCAAA 210

SEQ ID NO:6692

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07892

SEQUENCE DESCRIPTION:

GATCTGTCAT CTCATAGCA CAACAAAACG AAATGATGGA AATNCTCTTN AGCTCACAAC 60
ATTGTTTTN CTTTAAAGT AAATGCAAGT ACCAAAGCTC ACTACTGCGG TTTGCCTGTN 120
CCTGGNCANT GAGGCGGAGC NCTGTTGTTT TGTGGGGCA CCCCTTNN 169

SEQ ID NO:6693

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07893

SEQUENCE DESCRIPTION:

GATCTCTGCT TACCGTTCAA GAGGCGTGTG CAGGCCGACA GTCGGTGACC CCATCACTCG 60
CAGGACCAAG GGGGCGGGGA CTGCTGGCTC ACGCCCGCT GTGTCCTCCC TCCNTCCCTT 120
CCTTGGGCAG AATGAATTCG ATGCGTATTC TGTGGCCGCC ATCTGCGCAG GGTGGTGGTA 180
TTCTGTCATT TACACACGTC GTTCTAATTA AAAAGCGCAT TATAAA 226

SEQ ID NO:6694

LENGTH:31

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07894

SEQUENCE DESCRIPTION:

GATCTCTTAA ATAAACTTGC TTCTGGTTAA A 31

SEQ ID NO:6695

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07895

SEQUENCE DESCRIPTION:

GATCTAAATT TGTTATTTA AGCTGCAAGN AAGTTACATT AATTTGGAAT GTGTCATCAC 60
TTGGNCCAG TATATCAGAT TTNATTGAG TAAATGTTA AAAATAATAA GTGTA ACTCA 120
GATTCTGGAT GTNCGNGTTT ACAATACATT GCCTGTAATA AAAGCTGATT CTGANGTGCA 180
AA 182

SEQ ID NO:6696

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07896

SEQUENCE DESCRIPTION:

GATCCCAACC CTGTGTCCTG CCCTGACCCC TGTCTCCCA CTCGTGGCAC TGTCAGCCCA 60
GNCCTCCCTA CCGGCGAGAG TCCAGAGTGG GTACAGGAGC AAGGGGCACT GCTGGGGCCT 120
GATGGCTGAA GGAGACGCCG GCATCCTCGG GGGCCTGGGG AAGTTGTGTG TTGTGCAGTC 180
AGTAAATCC TCCCACTGCN AAA 203

SEQ ID NO:6697
LENGTH:51
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07897
SEQUENCE DESCRIPTION:
GATCAAATGA AATAATGTAA CGTGAGNATA CAGTATAAAT GATAAAGGAA A 51

SEQ ID NO:6698
LENGTH:65
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07898
SEQUENCE DESCRIPTION:
GATCTCCGGG CAGCCACCAC CTCCTCGGTC TGCCCCNTCA TAAAAAGTC CTCCTTCCAT 60
AGAAA 65

SEQ ID NO:6699
LENGTH:59
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07900
SEQUENCE DESCRIPTION:
GATCTAGTGC CTAGTGTTGC TTTTCTGATG TAATAAAAGG TGGTCTGGCA GAACCTAAA 59

SEQ ID NO:6700
LENGTH:129
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07901
SEQUENCE DESCRIPTION:
GATCCAGAGC CACAGAAAGA AATGTAGGTG TGAAGTATTA GGCTGCTGTC AGGGNGAGGA 60
TGGCAGATGG AGGCATCAAG CACAAGGAAA ATGCACAACC TATGCCCTNT TATACANNNN 120
GTTTCATGTN 129

SEQ ID NO:6701
LENGTH:39
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07902
SEQUENCE DESCRIPTION:
GATCTTAAGT TTACAATTAA AAACCTCAGTA CTCAATAAA 39

SEQ ID NO:6702
LENGTH:56

TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07903
SEQUENCE DESCRIPTION:
GATCCCCCGG GGCATGGCCT GGGCTGGTTT TGAATGAAAC GACCTGAACT GTCAAA 56

SEQ ID NO:6703
LENGTH:31
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07904
SEQUENCE DESCRIPTION:
GATCCTTTTA AAATAAAAAT NTTGATGCAA A 31

SEQ ID NO:6704
LENGTH:108
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07905
SEQUENCE DESCRIPTION:
GATCAGGAGC CTTCATTAAC ACAGAAATTT TAGGGAAAAC CACAAAAACC TTCGTAAAGT 60
GAATTGCATT AAACATCAAT TATAATAAAA TTTCATATTT TGANTAAA 108

SEQ ID NO:6705
LENGTH:29
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07909
SEQUENCE DESCRIPTION:
GATCAAAAGG GACAAGCATC AAGCACAAA 29

SEQ ID NO:6706
LENGTH:152
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07911
SEQUENCE DESCRIPTION:
GATCATGGGC AAAATCTAGC CACAGTCCTG AGAGTCCAGG CTTCTGGGAT GCCCAGCTGG 60
GTATAAAAGT CCCTACTAAC CCTGNTTCAA ATTCAGAGGT TTCTTTGGTT NAGAATGCCT 120
CAATGAGATT TTGATACATC CAAGAGCGCA AA 152

SEQ ID NO:6707
LENGTH:129
TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS07912

SEQUENCE DESCRIPTION:

GATCTAAAAA ATACAAAATG TAGACAATTA CTATTCAGGT GCTTACTTTT AAGCCAATAT 60
GTAGCAGNGN AAAACTAATT TCTCTGTGGC AGTATTTTAA TTTTGGNAT GTCCCNGGNN 120
TTAACTGAN 129

SEQ ID NO:6708

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07913

SEQUENCE DESCRIPTION:

GATCCGCACT GGGGGTTCTG CAGGGTGGGG NCAACCACAG CCTGTCACAA GCTCACCGTC 60
AGCCTCTNTG GNGCCATTGC GCAGCATGAA GTCCCTATCA CCCACATAAT AATGNGNN 118

SEQ ID NO:6709

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07915

SEQUENCE DESCRIPTION:

GATCTTTCCC AGTATCTNNA GTGGGTGACC ACACTTGTC GTGGGAGNCT NTGAAACTAC 60
CCTATCGNCT CCTTAAGGGC GGGATGAAC TCTTTGTGAC TTGAAAGGT ACGCTGCTGG 120
CCAGCATTGG AGANGAAGCT NCTGAGCAN 149

SEQ ID NO:6710

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07916

SEQUENCE DESCRIPTION:

GATCAGGTGG TCAAGGTGCT GCACGATGCC CAGCAGCAGT GCCGAGACGG CCACCCGGTT 60
GTGGTCAACA TCCTCATTGG GAGGACGGAC TTCCGCGATG GCTCCATTGC TGTATAGGGC 120
CTTGTGGGTC AGNACGCTTN GCTGCCTTCC TACCCCTGGA CTGTNTCCAA NTGGTTTTNG 180
AGTCTCATNA TTGCTTACCC CTGGNGCTNA TCCCATGAGG NCCCANTGNA CTTCAN 236

SEQ ID NO:6711

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07917

SEQUENCE DESCRIPTION:

GATCCGCAAA GAGGAAGACC GCCTCTTCAT TCTCAGGACC NTCACCTATT GATGGGAATN 60
TGTGCGGGCT CAGGGTTCCT NNACACACTA GNTGTGGGAA GCCATAGGAG CCTCCAGATG 120
GGGGCTGGCC TCTCTTGCCC AGCNAGNGGG CAGGGCCTGT GGGNTGGTGA ATN 173

SEQ ID NO:6712
 LENGTH:48
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07918
 SEQUENCE DESCRIPTION:
 GATCACGNCA TGGCACTTCA GCCTGAGCGN CAGAATGAGA CTATTAAA 48

SEQ ID NO:6713
 LENGTH:50
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07919
 SEQUENCE DESCRIPTION:
 GATCGTGTCA CTGAACTCCA GNCTGGGTAA CAGTGCGACT CTGTCTCAAA 50

SEQ ID NO:6714
 LENGTH:156
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07920
 SEQUENCE DESCRIPTION:
 GATCTTTGTT TAAATGCCAA AATGTACTTA AATGAGTTAC TTAGAATGCC ATAAAATTGC 60
 AGTTTATGT ATGTATATAA TCATGCTCAT GTATATTTAG TTACGTATAA TGCTTTCTGA 120
 GTGAGTTTAA CTCTTAAATC ATTTGGTTAA ATCAAA 156

SEQ ID NO:6715
 LENGTH:208
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07921
 SEQUENCE DESCRIPTION:
 GATCGATACC CCCACCCCTC CACTNGCCAG CCTGGGGGTG CCCTGCCTGC CCTCCTGGTA 60
 CTGTTGTCTT CCCCTCGGCC CNNTCACATG TGTATTACAG AGCCCTATGG CCTTGGCTNT 120
 GGGCCTGATG NGNAGGGGTA GAGGGAAGNT GAGCATAGCA CATTTTCCTA GAGCGNGAAT 180
 TGGGGGNAAG CTGTTATTTT NATATTAN 208

SEQ ID NO:6716
 LENGTH:57
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07922
 SEQUENCE DESCRIPTION:
 GATCACGACA CTAACTCCA GCCTGGGGGA CCGGGCAAGA CTCTGTCTGT CTTTAAA 57

SEQ ID NO:6717
LENGTH:333
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07923
SEQUENCE DESCRIPTION:
GATCTTGAAA AAAAAAGCAA AAGCTTAAAT ATTTGATACA AGTTTACTTA GCTACAACAT 60
ACTTTACATT GTTGCCTTTA GTTATCTCAC AGGCACTGAC ATTTTATATT TAGAAAATAC 120
TTTAAATCTT NCTAATCTTT TTTTGTAAT ATTAGTGTCC ATTCTGTATG ACTCGCTAAC 180
CTACTTTGCA AGGCTTTGGG CAACATTTTA GTCATTAAC TTCAAGATGA TGTGTCATCT 240
GTATAGGTCA AAGAATGGGN CTTCTGAACT GAGGAATTTT GCTGTTGACA GCCAAAGTNT 300
AGTGTACAAG GTTTGATGNA ACTNGNTTAT GTN 333

SEQ ID NO:6718
LENGTH:57
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07925
SEQUENCE DESCRIPTION:
GATCTTGGAC TTCCAGCCT CCAGAATTGT GAGAAATAAA TTTCTGTTGT TGATAAA 57

SEQ ID NO:6719
LENGTH:63
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07927
SEQUENCE DESCRIPTION:
GATCTTTGCT TAATAAGANG AAAAAAGAGG CAAGGAGAAA ACGAAGAGAA AGAAATTTTG 60
AAA 63

SEQ ID NO:6720
LENGTH:22
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07928
SEQUENCE DESCRIPTION:
GATCCNGTGT TCTTCTGTGA AA 22

SEQ ID NO:6721
LENGTH:186
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07932
SEQUENCE DESCRIPTION:

GATCCGGCTT GGACAGGCAC CTGAGATGGT GCCAAAGTGC AGCTGACTCT TCCCACGACA 60
 GCCCTGCCCT TCCCATGAGG CAGGCTCTTC AGTGAGTGTT TGAACGTAAT TATGTAGTTT 120
 TCTGTTTAAT TGA AAAAGNG AGCTATGCCT TTTTCTTT TTGGANGTAA AGCAGCTAAA 180
 ANCAAA 186

SEQ ID NO:6722

LENGTH:45

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07933

SEQUENCE DESCRIPTION:

GATCCAGGTG TTTGTTTCTA ACTTCTGTAA TACATACAAT GCAAA 45

SEQ ID NO:6723

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07934

SEQUENCE DESCRIPTION:

GATCATGGTG ATTTNACTGC TGCTTGTGGN TATCGTGGTT GTTGCAGTCT GGCCGACCAA 60
 CTGATGGCAG TAAAGAGACC ACCAGCAGTG ACACCTGCCA ATNACAGATG CAAGCCCAAC 120
 ACCCTNTTGG TACGCAAAAC CTNATCTCAA TAAATTCCCC CAAAGCTCTG AAA 173

SEQ ID NO:6724

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07935

SEQUENCE DESCRIPTION:

GATCCCAAGC CCTGCATTGT AAGCCCACAG TAGGCACTCA ATAAATGCTT GTTAAAGGAA 60
 A 61

SEQ ID NO:6725

LENGTH:269

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07936

SEQUENCE DESCRIPTION:

GATCCTGCAG AAGAATAACC TGAATCTGCT CAGAGACCTA AGCTGTGCAC ATTGCCATA 60
 GCCTCAGGAA CAGTCCAGAC TGGGGCGGTG TGGTCATATT ACACAGNNAG GAGGGTGATT 120
 CAGAGTTCAT GAATATCATT GCCAATNAGA TTGGGTCAGA GGAGACCTC CTGTTCTTAA 180
 CTGTGCGCGA TGAGNAAGNT GGTGGNCTNT TTTTACTGGC AGGGCCACNA NCGCTCATGT 240
 GGAGACCCNG GGGCCAGGG TGGCTGATN 269

SEQ ID NO:6726

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07937

SEQUENCE DESCRIPTION:

GATCCCTCAT CCCTGAAATT GAGTTTATGT AGTCATTTTA CTTATTTNAT TCATTAGCTA 60
ACTTTGTCTA TGTATATTTN TAGATATTGA TTAGTGTAAT CGATTATAAA GGATATTTAT 120
CAAATCCAGG GATTGCATTT NGAAATTATA ATTATTTCTT TTGCTGAAGT ATTCATTGTA 180
AAACATACAA AATAAACATA TTTNAANACA TTTGCATTTN ACCACCAAA 229

SEQ ID NO:6727

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07938

SEQUENCE DESCRIPTION:

GATCCATGAA CTCTGACCCC TCCCCAGTAA AGGCTTCTGT AGAGAGCAAA 50

SEQ ID NO:6728

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07939

SEQUENCE DESCRIPTION:

GATCCCCGCA CCAGCCTCTC CTCTCTTTCC CTGCAACCTG TTACCTCACA CAGCTGCTCA 60
GGAACAGCAG AAATAGTAAA ACTCTTCCAT ATATGTGGCA CCTCAGCCGC CCCTCCNTTA 120
AA 122

SEQ ID NO:6729

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07941

SEQUENCE DESCRIPTION:

GATCAGGAAG TTCTTAGATT CTTGGATGAC AGATGCATGT TGATGCCCTA TGGAGATGTC 60
CTTNTGTTTT GAGGTCACCTG AGGTAGGAAG ACCTGTCTAC TCTTGGTTTC ACCACTAGAA 120
CAGTCTTGGG CTGGATGGGT TATAGAGCTG AGCGGCTGTA ATGGTTCTNT TTTTACATTA 180
ACAAAAACAA TTA AAAACAC CAAAAACAAC AAA 213

SEQ ID NO:6730

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07942

SEQUENCE DESCRIPTION:

GATCCCAGGN ATTCAAGGTT AGAGTGAGCT ATGATTGCAC CACTGTACTC CAGCCTGGGC 60
ANCAGAGANN GACCTGTCTC ACAA 85

SEQ ID NO:6731

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07944

SEQUENCE DESCRIPTION:

GATCCAGCTG GAATTTGAGG AACTGGAAC AATGAGGTCA GCTTCCAAAA CAAAACAAAA 60
AAAACTTTA AACATCTGTG TAAGTACAGG GTGGAATATA ATGAATTCCA GGTACCCATC 120
ACTTAGGTTT CACAATTAGC CATGGCCAAT CTTGTGTGAT AGGTATGTCC CTACCTATTT 180
CTCCCCTGCC CTNATTGTGA AGTAAATATT TTCCTAAAAG GTCTTTTAA AATTAAGTTA 240
TAACCATGCC ATCATTGTAC AAANNTAATG CTATTANNTT CCTTANTNTN ATCAAATNTT 300
CNNGNCTNAN NTN 313

SEQ ID NO:6732

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07945

SEQUENCE DESCRIPTION:

GATCACTTGA ACCTAAGAGT TTGAGGCTGC GCACTGCACT CTGGCCTGAC AGAGCGAGTC 60
ACTGTCTCTT AAA 73

SEQ ID NO:6733

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07946

SEQUENCE DESCRIPTION:

GATCTGAATT CTAATGCTGG CTTGTGCCTC TAACTATGTG GTTTGGTCAT TATAGATAAT 60
GCCCAGTTTA ANTTTCCCA TCTTTGAAAA GGAGATAATA TGTNATCTCT TGGGAGTAGT 120
TCTGAATATG AAGTGTGTTG ATACAAGAAG CACTGACAAT GTTTCTGTNN NNNAATTTA 180
AAACTGGCCT GGTTCGCCTT TTAATCAAG NGNGCTTAAC AGGTAAAAAN TTGGAATTAG 240
NCCTAAAAAN AAAAACN 257

SEQ ID NO:6734

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07948

SEQUENCE DESCRIPTION:

GATCCTTTAG CCTCTGGNA GTGCCCCAGT TGTACCCCT ACACACCCCT CTTGGCATTG 60
AGTGCCAGTC CTCTGCCAGG CTNTGTGTTA CAAGTTGGGG NGGCGGCAA AGTACCGAAT 120

TAAAGATGTC AGTTCTAAAG GAGGNAAA

148

SEQ ID NO:6735

LENGTH:289

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07949

SEQUENCE DESCRIPTION:

GATCATATCC AATTCATATG GAAGTCCCGG GTNTGTCTTC CTTATCATCG GGGTGGCAGC 60
TGGTTCTCAA TGTGCCAGCA GGGCCTCAGT ACCTGAGCCT NAATCAAGCC TTATCCACCA 120
AATACACAGG GAAGGGTGAT GCAGGGAAGG GTGACATCAG GAGTCAGGGC ATGGNNTNGN 180
NAGATGANTA CTTTGCTGGA TGAAGCAGGC TGCAGGGCAT TCCAGCCAAG GGCACAGCAG 240
GGGACAGTGC CGGGAGGTNT NGGGTAAGGG AGGGCAGTNA CNTNAGAAA 289

SEQ ID NO:6736

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07951

SEQUENCE DESCRIPTION:

GATCAGGCTT TAAATACTC ATTTACAAGT TTTCTATCCT CTTTCAGTGT TAAAGTAGAA 60
AGTAAAAAGA GTATCTNATA CATGCATGAA ATTAAAGCAT ATACCAAATG CAAA 114

SEQ ID NO:6737

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07952

SEQUENCE DESCRIPTION:

GATCACCCAG CATCCTTCCC CACCCAGCT GTGTATTTAT ATAGATGGAA ATATACTTTA 60
TATTTTGTAT CATCGTGCCT ATAGCCGCTG CCACCGTGTA TAAATCCTGG TGTATGCTCC 120
TTATCCTGGA CATGAATGTA TTGTACACTG ACGCGTNCCC ACTCCTGTAC AGCTGCTTTG 180
TTTCTTTGCA ATGCATTGTA TGGCTTTATA AATGATAAAG TTAAAGAAA 229

SEQ ID NO:6738

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07953

SEQUENCE DESCRIPTION:

GATCTCTTGT NCTTTAATTT TAGGGTCTTG TTCCAGGACT CAAATCAGTA ACTTGGTGAT 60
TACAAGGTGC TGAATGTGTT GGTAACCATA TCGCAATACA CCTCAAGGAA AAGGTTTCAGA 120
TTTTNATTTT TAAATATTT NCATTTTTTC CTTGAATTTN ATATCCGTTT GTCCACTCGT 180
ACATGCCTAG CCTACAGAAG GGGATATATA TNATGANATG GTCATTTTCC TGAAGNGNAT 240
ATTTTGCTTG AAATGCAAAG GNCTGAAAGN GNTTGTAGG TTGTTGGTTT TTTCN 295

SEQ ID NO:6739
LENGTH:85
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07954
SEQUENCE DESCRIPTION:
GATCATAACA CTACTCCAGT CTGGGTGATG AAGTGAGACC TGTCTACAAA AAAAAGAAGC 60
CCAAACTAAA CCTAAAGCAA GCAAA 85

SEQ ID NO:6740
LENGTH:145
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07955
SEQUENCE DESCRIPTION:
GATCAGGCTG GTCTCAAACCT CCTCGGTTCA AGCAATTCGC CCACCTTGGC CTCCCAAAGT 60
GCTGGGATTA CAGGGGAGCC ACTGCACTGG CCTTCATTGT CTTTTGCTG CACAACCTAA 120
AAAACCAAGT ACCCTGTATT GGAAA 145

SEQ ID NO:6741
LENGTH:81
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07956
SEQUENCE DESCRIPTION:
GATCCTAACA TGTATTGATT GTAAAAGTGA AATATGTAAT AGCCACACTT CACTGTTTTA 60
AAATAAAAGT GCAATTTCAA A 81

SEQ ID NO:6742
LENGTH:50
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07957
SEQUENCE DESCRIPTION:
GATCTTGTCT CCAATTAAAC CGAGGCTTTC ACCGATAAAA AAAAAACAAA 50

SEQ ID NO:6743
LENGTH:115
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07958
SEQUENCE DESCRIPTION:
GATCTGATGA AGTATATNTT TAATTGCCAT TTTGTCCTTT GATTATATTG GGAAGTTGAC 60
TAAACTTGAA AAATGTTTTT AAAACTGTGA ATAAATGGAA GCTACTTTNA CTAAG 115

SEQ ID NO:6744
LENGTH:175
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07959
SEQUENCE DESCRIPTION:
GATCGGGCTA CTACAAAGTT CTGGGAAAGG GAAAGCTCCC AAAGCAGCCT GTCATCGTGA 60
AGGCCAAATT CTTCAGCAGA NGAGCTGNGG AGAGATTAAG AGTGTGGGG GGGCCTGTGT 120
CTTGGTGGGT TTAAGGCNCA TTGGNGGGNA NTTATTNAA TTNTTACTTC TTTTN 175

SEQ ID NO:6745
LENGTH:61
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07960
SEQUENCE DESCRIPTION:
GATCAAAAGT AACACGTNNA GACTCTGAGC TTAATCCATT AAATGGATTT NAGCATCTAA 60
A 61

SEQ ID NO:6746
LENGTH:118
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07961
SEQUENCE DESCRIPTION:
GATCATNAAC TACTGTGGTT ATNTGGAAGT CTAGGTTCTG GTCCTGCTAC CCCTTTAACT 60
TGAGTNATTT ACAAGTCTGT TTAAGGTTT CTAGACATAC ACTGGTTTGN TTTTAA 118

SEQ ID NO:6747
LENGTH:140
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07963
SEQUENCE DESCRIPTION:
GATCGCCCAA CGTTTTTGGN TTATAGAATT ATTATTTCTT GCTTTCTTTC TTTGGGTCTT 60
TTGAATTTCT TTGGTTTCGT NTTAAGAAG TAACCCANCA TTCCTACAA CACTAAATAA 120
AATGGTACTT ACCTTTCAAA 140

SEQ ID NO:6748
LENGTH:68
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07964
SEQUENCE DESCRIPTION:

GATCCCCGTT CCACCCCAAG AGAACTNGCG CTCAGTAAAC GGGAACATGC CCACTGCAGA 60
CACGTAAA 68

SEQ ID NO:6749

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07965

SEQUENCE DESCRIPTION:

GATCCCCCT GCCTATCAGC TTCTCCTGTG GNGCCTGTTC CTCACTGGAA ATTGGCCTCT 60
GTGTGTGTGT GTGTGTGTN 79

SEQ ID NO:6750

LENGTH:28

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07966

SEQUENCE DESCRIPTION:

GATCGAAAGG GAGGCAGGTT TGCCTAAA 28

SEQ ID NO:6751

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07967

SEQUENCE DESCRIPTION:

GATCTCAAGC CAGCCCCNTC CAGCTCATGA CACTGTTTGG CTTTCTTGG GGAGAAGGCG 60
GGGTATTCCC ACTCACCAGC CCTGGCTGTC CCATGGGGAA ACCCTGGAGC CATCCCTTNG 120
GAGCCAACAA GACCGCCCCA GGGCTATAGC AGTAAGAACT TTAAAGCTCA GGAGGGTGAC 180
GNCCAGATNC GNCTGCTGGG AAGAGCTCCC CTNCACAGCT GCAGCTGAAT GCATTAGGGC 240
TACCGNAGGN CCCGGACTTA NCAAACTTTG NCNACAANNG TTCCTAGGGN TTN 294

SEQ ID NO:6752

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07969

SEQUENCE DESCRIPTION:

GATCCCCAAG TGTGAACAGT CTGAAAAGGG CTTTTTGCTT GCTGCAGGGA CCTGAGAATT 60
GAGAAACAGC TGTGAAACTT TGAACCCTGG CTGGAAGGTC CTGGTATTGA CTGTGGCANG 120
AAAACGGGGG AGCTAATCTG TAATCTGCTT AGACGCCAAA 160

SEQ ID NO:6753

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07971

SEQUENCE DESCRIPTION:

GATCAGATTC ACGGACCCAG AGCTTTTCCA TGTGTTTATA TTGTAAATAT TTTTNATTTC 60
ATCAAATTAT TTATTCATTA AAAGAAATTT TTGTGAAA 98

SEQ ID NO:6754

LENGTH:35

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07973

SEQUENCE DESCRIPTION:

GATCCTGTCT CTTAGGAAAA AAGAAAACCT CTAAA 35

SEQ ID NO:6755

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07974

SEQUENCE DESCRIPTION:

GATCAAAGAC CCTGCCTCTA TTTNACCCCG CACTGACTGA ATAAAGCTCC TCTGGCCGTT 60
NAAA 64

SEQ ID NO:6756

LENGTH:38

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07975

SEQUENCE DESCRIPTION:

GATCATCTGA GCTGAAGAAA TAAAAAACA CACACAAA 38

SEQ ID NO:6757

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07976

SEQUENCE DESCRIPTION:

GATCATT CAT AACTATATT TATTTTNC A TTAAANTATT TTAAACCTT TGGAAA 56

SEQ ID NO:6758

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07977

SEQUENCE DESCRIPTION:

GATCTTTCAT CAAGATTTTA CCTGCATTTA TGTCTAAGGG TCCCTGATAA GGCTTGAGGC 60
ATGTAACCTA TGTCTAATTA AAAATGATTT GTTGAATGAA NCAAA 105

SEQ ID NO:6759

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07981

SEQUENCE DESCRIPTION:

GATCTACAGA AGCTTTNATT CTCTTACCTT AACAGTAGTA ATAAAGTTAA CATTNTCACA 60
TCAAA 65

SEQ ID NO:6760

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07986

SEQUENCE DESCRIPTION:

GATCTGTGTG TTGTGGGAAG AGAATTTTCA ATATGTAAC AC GGAGCTGT AGTGCCATTA 60
GAAACTGTGA ATTTCCACAT AAATCTGAAC ACTTGTCTTT ATTAAA 106

SEQ ID NO:6761

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07987

SEQUENCE DESCRIPTION:

GATCTCATGG CTTTGATTGN TTTGGGCTGT TCAAAATGTT TATTTGNAAA ACGTATACAT 60
TAATAAACTT AACAAAGCGN TATAAAATAC AGCGNAATCA CCCAAA 106

SEQ ID NO:6762

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07988

SEQUENCE DESCRIPTION:

GATCGAAAGG GCCACCATGA ACTTGATACG TCCGTGTGTC CCAGATGCTN NCATTAGTCT 60
ATATGGTTCT CCAAGAACT GAATGAATCC ATTGGAGAAG CGGTGGATAA CTAGCCAGAC 120
AAAATTTGAG ANTACATAAA CAACGCATTG CCACGGAAAC ATACAGAGGN TGCCTTTTCT 180
GTGATTGGGT GGGATTTTTT CCCTNTTTAT GTGGGATATA GTAGTTACTT GTGCAAGAN 240
TAATTTTGGC ATNATTTCTN TTANTATCAA CTCTGANGCT AACTTGACT AATCTGAGAT 300
TGTGTNTGNT CCNANTAANC GTGANGTGAA CCTGN 335

SEQ ID NO:6763

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07989

SEQUENCE DESCRIPTION:

GATCTTGGAG ACAGGCCATC CATCCTGGAG CCTCATGGAA CAGGATGATG GCACTGAGAA 60
AGCCAATGAC CGAATCTCTT TTCTCTGTAA AAATGTAGAC TGAAAAGCCA TGTGTATTTT 120
CCTATGTGCT GTAGCTCTCC TTTGGAAATA AATCACAGGC ATCTGGAAA 169

SEQ ID NO:6764

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07990

SEQUENCE DESCRIPTION:

GATCTGGGCT GCAGGAGCTG GGGCCACCCA CAGCCCCCT ACCGACCTGG TGTGGAAGGC 60
ACAGAACACC TGGGGCTGCG GGAACAGCCT GCGTACGGCT CTCATCAAAC TCACTGGGGA 120
AGAAGTGGCC ATGCGGAANT GGTGCGCTCA GTGACTTNTG GTTNAGGACG NCGNGGNTTG 180
AGGATTGAGA NTACNTATT CATTNACCAC NN 212

SEQ ID NO:6765

LENGTH:141

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07991

SEQUENCE DESCRIPTION:

GATCATACCA CTGCACTCCA GCCTGGGCGA CAGAGAACCT CTCTAAAAAA AAAGGAAAAT 60
NAAAAATAAA TGGGGGCAGA AGCTGAGCCA AGCAGAGGCG GGCAGCTCCT CCTCCAGGGC 120
CCACCTGGCC TGCTGGGGAA A 141

SEQ ID NO:6766

LENGTH:360

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07992

SEQUENCE DESCRIPTION:

GATCTGTTAT NAAACGAAAC ACCCCCCGTG TTAATAACTT GGTATGAAAT CTGTTTTTAT 60
GAGCCGGGCC CCCTGTGCCT CTAGTATACT TGTATTGACT CTCATAGTTA CCCTTTTAGT 120
TTTACTGTGT TCTGTGAAAA TTTGTAATTG GTTGNGAATC ACTGTGGGCG TCCATTCTTA 180
TTCAACTAAA TCTCCACAGG TTTTTTGAGC TGGTGTGGAT TAGTTTAACT CTTGTATTCA 240
ACCATTAGTG CTACCACCTT CTCACATTAC AATACANTTN CTGGAAGCAA GTACTGCATT 300
TCCTATGCAA CAAAAAAGG GCAAAAANTAC ANANATTGCT AAATGATAAA CAAANACTTN 360

SEQ ID NO:6767

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07994

SEQUENCE DESCRIPTION:

GATCAAAAGG GCTATGGGAA GGGCAGACCC CGCCAATGAT TTCTCTTCAC CTGTCTTAAG 60
ATTAAATAAA AAAGAGTGTC CTGGCAAA 88

SEQ ID NO:6768

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07995

SEQUENCE DESCRIPTION:

GATCTTGCCA AGAACCATCA CGTGTTAATT TAGTTGCTTA AACAAAAGGT GTTCTGTTTC 60
TTAAA 65

SEQ ID NO:6769

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07997

SEQUENCE DESCRIPTION:

GATCAGTGGT GAAATATAGT GATTTTNACC TGTGCTTCCA TTCTGAAGTT CTGGAAAGAA 60
GTACTGGATG GACTGAAGTC CAGGACAACG TTCCAAAGAA AGGCAGAGTC CAGGTAGGCT 120
TGGAGGACCA AGCCCTGGAT GAGCACTGGA GGGCAGAGGC CTCAGTGTCC AGCACTGTGC 180
CCTGCACATG GAAAGCCCCT ACGTTTGTGG AATNAATGAN TANTAAAAAT ATTTTNATNA 240
GTGAAA 246

SEQ ID NO:6770

LENGTH:23

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07998

SEQUENCE DESCRIPTION:

GATCCTGTCC CTGCCCTGCC AAA 23

SEQ ID NO:6771

LENGTH:46

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07999

SEQUENCE DESCRIPTION:

GATCTGTATA TCCTCCAGTC CAAGATTAAA GAGGCGGACT GTGAAA 46

SEQ ID NO:6772

LENGTH:108

TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08000
SEQUENCE DESCRIPTION:
GATCCAAACT CATTCTTNCT GTAACTCAT GATGACGTAT AACNTTTCC ACCTCACTNG 60
GAGGTTGGNT CTNCATTCTG AAGGCTTCTA TGTATACATA TTAAATAN 108

SEQ ID NO:6773
LENGTH:218
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08001
SEQUENCE DESCRIPTION:
GATCAACGAC GACCTTTTTT CTTTNATAC TAAAGTAAGA AATAAGAATG TNAGCCCAAA 60
CTGCACTATT TTGCAGACCC CTACCATTTT ACAAAGTGGT CAGAGTGGAA AATCCACCA 120
GGGCTGAGC TGTGAGAAAC ATCCTGTCAG GCAGGNCCCA GGCTNAACC CCTGGCTGCA 180
CTAANTTNCT TCATNATCAN CAGCCTAACA NACCGTCN 218

SEQ ID NO:6774
LENGTH:38
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08002
SEQUENCE DESCRIPTION:
GATCAACAGT GCAGAGAATC TAGCAAGTAT AAAAGAAA 38

SEQ ID NO:6775
LENGTH:252
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08003
SEQUENCE DESCRIPTION:
GATCTGCAAC ATGAANCCCG AGGCATGGGT TGGTGTGATG CCAAGGCAAA GTGGTGAGGA 60
GAAAACAGGA AACGGNCTTT CTCTGAATTG GTAAATGGGA AAGAAGTGAG CAACTTAAGA 120
TTGTCACANT TAATCACAAG TGTACAGGAT TAGACTGGGT TTATATTTAA CTCTTGCTTC 180
ATAGGTGTAC CATTTAAAGN GTGTTATNTA NTGCTAAGAA NTAAGTCTT TNATAAGCT 240
TATTNNNAA TN 252

SEQ ID NO:6776
LENGTH:34
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08004
SEQUENCE DESCRIPTION:
GATCAAAGGG AATAAGAGA ACTCTTGCTT GAAA 34

SEQ ID NO:6777

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08005

SEQUENCE DESCRIPTION:

GATCATATNC TTTTCTNTT TTGTTCTTA CAATATCAAT CTAATTTAAT ATTCTCTTGT 60
GAGAACACAA ACATNNGTAA ATTGCTCAGT AGTGGCAGCA GTAAGGN 107

SEQ ID NO:6778

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08006

SEQUENCE DESCRIPTION:

GATCAAGGTT TGTNTGCCCA TTACCTTTCC TCTGCCTGAA AGACGTGTCT CAAGAAAAAT 60
AAATTCTATT TNAGATGCAG GTACTNATAN TAATTCTAAG ANTTGATATC AN 112

SEQ ID NO:6779

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08007

SEQUENCE DESCRIPTION:

GATCAGAGNA AACGNCTTTA ACNCCACCAT TAGCACCCAA AGCTAAGATT CTAATTTAAA 60
CTATTCTCTG TTCTTTCATG GGAAGCAGA TTTGGGTACC ACCCAAGTAT TGA CTCACCC 120
ATCAACAACC GCTATGTAAA 140

SEQ ID NO:6780

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08008

SEQUENCE DESCRIPTION:

GATCAATCTC ATATTCATTC CCTGGGATGT TTAGTTACCA GTTTTCCCAA AGTGTTCTGG 60
TAGCATCTAC CATATTTNAT CAAATCTGTG ATTCCTTTGA TTATNATATG AACCATTATT 120
TTATGTATCA TTAAGAAAAA ATACTGCCAA TTAAACTCTG TCATGNNAAC AAA 173

SEQ ID NO:6781

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08009

SEQUENCE DESCRIPTION:

GATCCAAGTT GAGATTTTAA TTCTGTGACA TTTTACAAG GGTAATGT TACCACTACT 60
TTAATTATTG TTATACACAG CTTTATGATA TCAAAGACTC ATTGCTTAAT TCTAAGACTT 120
TTGAATTTTC ATTTTAAAAA AAGATGTACA AAACAGTNTT GNAATAAATT TNAATTCGNA 180
TATAAA 186

SEQ ID NO:6782

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08010

SEQUENCE DESCRIPTION:

GATCCATTTC TNATATGTCT TGAAGTACTG TGTCTAGTGG GCAAATGTCA TTGTTACCTC 60
TGTGTGTAA GAAAATAAAA ATATTNCTA AAGGTCTGTA AA 102

SEQ ID NO:6783

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08011

SEQUENCE DESCRIPTION:

GATCAAGTAG ATTTTAAAAA AATCAGAGTC AATTAATTTT AATTGAAAAAT TTCTCTTATG 60
TTCCAAGTGT ACAAGAGTAA GATTATGCTC AATATTCCCA GAATAGTTTT CAATGTATTA 120
ATGAAGTGAT TAATTGGCTC CATATTTAGA CTAATAAAAC ATTAAGAATC TTCCATAATT 180
GTTTCCACAA AACTAAA 198

SEQ ID NO:6784

LENGTH:278

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08012

SEQUENCE DESCRIPTION:

GATCAGAGTA AAACNTGGAG CTAGATTGAT TACAGAGTGC AAGGACTAGG CACCCCGGGA 60
TTGGAGAGCA TCCTGAAAG CAAGGGTTCT TCATTATTT ATAAAAATT NATTCCTAC 120
TAGAAGCCCA GCTAAGAGTA TGAAGCAATT AAGACAACAN TCTTTGCTCA AGAATCTCCT 180
AGACAATCCT GATTCAAGCA CCAGAAACAA AGGGNNAAGA AACCTCCCAG TCTNGTGNNG 240
NAAGTNGTAC ACATCNTGTC AACAGNTAGG TTNTTTN 278

SEQ ID NO:6785

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08013

SEQUENCE DESCRIPTION:

GATCCCATGT NAGCTACACA GTGCAGAGGC TCTTGATGGT GGAATAAGCA ATTCCTCCC 60
TCGTGCGCAT CTCAGAACCC ATCGGTAGGC AAAGGAAAAT ACGCTCAGGT GGTGTGGNN 120

NAGNCTGTNT CAGGCCTACG GAGTCAGCCA GTGGCTAGCG CAAGACCAGT CACTCCCTCT 180
GCNTTCAGGC TTCTTTCAAT TTCATTATCA TCAAGCAGGA ATTATGTCGT AAGTCACTGA 240
CCCTAACTGC AGACCATGAA GTAAATTATG TAACTAGGTT TTTNNCTTCT CCAGTGGTGA 300
CCACCNNCNC NCATNCCCCG GTNANAACCT GGGTTTTTN 339

SEQ ID NO:6786

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08014

SEQUENCE DESCRIPTION:

GATCGCTAT TACTGACAGT CTCATTGTAG CTCTAAAAAG CCTAATGTAT CCACTGTGGA 60
ATAAACTCCA TAGACTCAAA 80

SEQ ID NO:6787

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08015

SEQUENCE DESCRIPTION:

GATCTTGAAG AGACCGCTGG CAGCACCAGT ATTCCCAAGA GGAAGAAGTC TACACCCAAG 60
GAGGAAACAG TTAATGACCC TGAGGAGGCA GGCCACAGAA GTGGCTCCAA GAAAAAGAGG 120
AAATTNTCCA AAGAGGAGCC GGTCAGCAGT GGGCCTNNAG AGGCGGCTNG CAAGAGCAGC 180
TCCAAGAAGG NAGGAAAAAG TTCCNTTAAG CATTNCCNGG GAGNTTTGAA TTCAAAATG 240
GGCATTNTN TTTGGGGGTT GGGNNATTCC CTTGGCCCN 279

SEQ ID NO:6788

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08016

SEQUENCE DESCRIPTION:

GATCCACTCA CCTCGGCCTC CCAAAGTGCT GGGATTACAG TGCCCGTCCG TGATGATGGG 60
AACATGNCCG ACGTGCCCAG NCACCCCAG GACCCTCAGG GCCCAGNCT GGAGTGGCTG 120
AAGAACTGT GAGCACCTCC ACTGACAGAG GCGGCCCTC CCACGGCTCC CAATAAAAAT 180
GTGAAAACCA AA 192

SEQ ID NO:6789

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08017

SEQUENCE DESCRIPTION:

GATCCGTATC GNTTTAAGAA GCGGACGGAG CTGTTTATTG CCGNCGAGGG CATTACACG 60
GGCCAGTTTG TGTATTGCGG CAAGAAGGCC CAGCTCAACA TTGGCAATGT GCTCCCTGTG 120

GGCACCATGC CTGAGGGTAC AATCGTGTGC TGCCTNGAGG AGAAGCCTGG AGACCGTGGC 180
AAGCTGGCCC GGGCATCANG GGACTATGCC ACCGTTATCT CCCACAACCC TTNGACCAAG 240
AAGNCCC GTT TTGAANGTTG CCCTNCGGTT TCCAAAGAAN GTTTATCTCC TTAANGCCAA 300
TCN 303

SEQ ID NO:6790

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08018

SEQUENCE DESCRIPTION:

GATCTAAAAA TCAATGAGAA CATAATTTTA ATTGGCAGTT CTTCAGAAAA ATGTGAATGG 60
CTTATAAACA TAAATGTAAT ACTCAGCTGC TGTCATCATC AGAAGAATGA AGTTGTTTTT 120
AAGCTCTTCA NCTGTCAAGN GTAAGAAGCA ATGTTACTAA TACCGGCAAG NTATGAAAAG 180
ACGCTCATAC ATTGTTGGAA ATNAANGTTG GTATNGCTTT TCAGCGGCCN ATNAACATAA 240
TCCCNNTNTT TCTTCCCTAC NNACTCN 267

SEQ ID NO:6791

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08019

SEQUENCE DESCRIPTION:

GATCATCTGG CAAGACAGCC CAAGAATAAA GCCGTCACCA TGGAGACTAA GAAGNGNCAG 60
AAAGNCACTG GGTCTTCATT GTNTCGTCCA GCTGTTTCATG AGGCCTTATC TGAAGCCCAC 120
GTGACCTCCG GNCTACTCAC TTACATGCGN GAATAAAAGC TCTATTTTGT TTAGGNCCN 180
AAATAANTN 189

SEQ ID NO:6792

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08020

SEQUENCE DESCRIPTION:

GATCTGCTGG CAGAGGNCAA TCAAAAACGA CAACAAGCTT CTTCCCAGGG TGAGGGGAAA 60
CACTTAAGGA ATAAATATGG NGCTGGGGTT TAACACTAAA AACTAGAAAT AAACATCTCA 120
AACAGTAAA 129

SEQ ID NO:6793

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08021

SEQUENCE DESCRIPTION:

GATCAGGACC CACCTCCAGT TCTNCTGAAA GTNTGACAGT GTCCAGCCGG TTCTGCAGCA 60

CTAGGGGAGG GGGCAGATGG TGGTTGCATG GGCTTCCTGG GTCTCCACTC TCCGTCTGGC 120
CTAAAGGTGA TGTATTTGGT GTTTGGNCCT GCAGTCCCCA CTNTTAAGGC TTAAGGCGGA 180
TGTGGAACAN CACTTTCTTT CAGGAGTAGG TNGTNTACT TGTACCTCAT TTAGGGCTTA 240
GAAAGTTTTN CCNCACTN NAAAAAN 267

SEQ ID NO:6794

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08022

SEQUENCE DESCRIPTION:

GATCTACAAA ACAGATAGNG NAAAGTACAA CAGAATAGCT CGGGAATGGN CTCAGAAGTA 60
TGCGATGTAA TTAAAGAAAT TATTGGATAA CCTCTACAAA TAAAGATAGG GGNACTCTGA 120
AA 122

SEQ ID NO:6795

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08023

SEQUENCE DESCRIPTION:

GATCCCACTT GTAGATGCTT GCACTCACAC AATAAAAACG TCTGNTATTT GCCAAA 56

SEQ ID NO:6796

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08024

SEQUENCE DESCRIPTION:

GATCCGTGGT TCCCTGCAGA CTGGCAGGAG CAGATTCCAA AGGCACAGGA AGAAGCTTGC 60
AGGTAGAATG TGTTCATTAC CTTCTGCGCA TTATACCACA AAAAAGCTGG GNATAAAAAT 120
GCTAACCAAA 130

SEQ ID NO:6797

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08025

SEQUENCE DESCRIPTION:

GATCTGCCCC ATGATTGGTT CCTTAGGANC AAGNAATTTA CAAGTAGNAA TTATTCCTTT 60
CAGAGTAACA TGCTGTATTA CTTCAATCCC TATTTTTGTC TGTTCCATT TCTTTGGATT 120
CCCTATTCAC ATTGAATCCT NTTTGCCCTT CTGAAACAAT ATTCAGTCAC AAGNGNTTTT 180
GGTCATGTTG GTCTTTGTAA CAAATNAAAN TTACCTTATA TCCTTCTGGA CAAA 234

SEQ ID NO:6798

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08026

SEQUENCE DESCRIPTION:

GATCACAAGG TCAGGAGTTC GAGACCAGCC TGGCCAATAT GGTGAACCTC ATCTCTATTG 60
AAAATACAAA AATCAGCCAG GCACGGTGGC AGGCGCCTGT AGTCCACCTA CTCGGGAGGC 120
TGAGGCAGGA GAACTGCTTG AACCCAGCGG CAGAGGTTGC AGTGAGCCAA GATTGAGCCA 180
CTGCACTCCA GCCTGGTGNT AGNGCGNGCT CTGTCTCTAA ATAATNANNT AAANTNCNTT 240
AANNNN 246

SEQ ID NO:6799

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08027

SEQUENCE DESCRIPTION:

GATCAGTGTT AAAC TAGATT GTATTCATTA CTAGATAAAA TGTATAAAGC TCTCTGTACT 60
AAGGNGAAAT GACTTTTATA ACATTTTGAG NAAATAATAA AGCATTATC TAAA 114

SEQ ID NO:6800

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08028

SEQUENCE DESCRIPTION:

GATCTTTTGT GCCAAGATGC AGGGAAATNA AGAAAGCTCT TTCCAGCTGT TTTNATGGAT 60
TCATGGAGTG GGCTCATGTT GGGACCAGCT GACTCTGGGN GGAAGACTGC CTCTCCATCG 120
CTGTCAAGAG GCCTGAAAGG ACCAACAATG AGNTGTTCTT GGGACCCGCC ATGGGGATGA 180
TTGCTTCTCT AGGCTNCTGG CTGTTGCTGC ATTCTAAGGN TTAACCTCCT GGTCTNATGG 240
TAGTGANCTT GAGCTTTTNN ATTCNATAGN AGNN 274

SEQ ID NO:6801

LENGTH:42

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08029

SEQUENCE DESCRIPTION:

GATCTGTGNA GNAATGAAAT AAAATGGAGA AGAAGACAGA AA 42

SEQ ID NO:6802

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08030

SEQUENCE DESCRIPTION:

GATCCAGTTT CAAGAATGGG CAGGTAAACG CAGNANGAGG AAAGGAATGT GGAATGAGAA 60
 CTTGGTGGTT CACCGCTGTA CTATTGTGT AAATGTTTAC GTATGTNATA AGCTACATGT 120
 ATGTAAATNT TGCAATACCC CTAACAGTCG AGTAGTAGTC TCCCTTACAG GAATTTTGA 180
 CGGGGTTTCT CATCATCAAT ACCAAATAAN TATATGTAGG NNTGGAAA 228

SEQ ID NO:6803

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08031

SEQUENCE DESCRIPTION:

GATCATATTC TTGAAATTTT TATAAATATG TATGGAAATT CTTAGGCTTT TTTTACCAGC 60
 TTTGTTTACA GACCCAAATG TAAATATTAA AAATAAATAT TTGCAATTTT CTACAGAATT 120
 GAATACCTGT TAAAGGAAAA TTACAGAATA ANCTTGTGAC TGGTCTTGTT TTACATTAAA 180

SEQ ID NO:6804

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08032

SEQUENCE DESCRIPTION:

GATCATTCCG AGGTCATTTG AGGACGCACA CTGGAGAGAA GCCTTATNAG TGTAACAAT 60
 NTGGAAAAAC CTTCACTTGG TNCTCAACGT TTAGAGAACA TGTNAGAATT CACACGCAAG 120
 AGCAGCTCCA TAAATGTGAA CACTGTGGGA AGGCCTTTAC CTCTCCAGA GCATTCCAAG 180
 GTCATTTGAG GATGCACACT GGAGAGAAGC CTTATGAGTG TACACAATGT GGANAAACCT 240
 TCACTNGGGG CCTCAANCCT TACNTAATAA TGTGGTN 277

SEQ ID NO:6805

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08033

SEQUENCE DESCRIPTION:

GATCTACCTC AGTATTCAAG TTCAGTGGGG ACACCAGTGG CTTCAAACCT CCTGGTTTCA 60
 TGATATCTTG AGACGCCTTA CAAATGATGG AGGATTCCAA AGAGTTTTTG TTTATTTGGG 120
 TTAATATTTG TTGGTATTTA TGGCATTGGA GATTGAAACT AAGNAATGTT TTAATTTATT 180
 ACCTTTACAA CATTATTTA CATTACATAC ATACATTTAC AACATTTATT AATTTATNTT 240
 AAAATAGCAT GNATAAGCCA ATTATNGGTT AGN 273

SEQ ID NO:6806

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08034

SEQUENCE DESCRIPTION:

GATCCACTCT TCTCGNCCTC CCAAAGTGTT GGGATTATAG GCGTGAGCAC ANGCGCCCGG 60
 CCTGNTNTGG ATATTCTTA TAAATGGAAT CATACAGTGC TTNTTTCAGT TAGCATAATG 120
 TTTCCCAGGT TCATCCAGGT CATAACACAT AATCAGGCTT CATTTNTTTT TATTACCANC 180
 TAATATTCTA TGAATATAAA NNNACCN 207

SEQ ID NO:6807

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08036

SEQUENCE DESCRIPTION:

GATCCTGAAG AGATTGAAAA AGAAGAGCAG GCTGCTACTC AGCCTGAGGT TGCAGACTGG 60
 TCTGAAGGTG TACAGGTGCC CTCTGTGCCT ATTCAGCAAT TCCCTACTGA AGACTGGAGC 120
 GCTCAGCCTG CCACGGAAGA CTGGTCTGCA GCTCCCACTG CTCAGGCCAC TGAATGGGTA 180
 GGAGCAACCA CTGACTGGTC TTAAGCTGTT CTTGCATAGG CTCTTAAGCA GCATGGNAAA 240
 ATGGTTGCTG GCAAATAAAC ATCAGTTTCT AAA 273

SEQ ID NO:6808

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08037

SEQUENCE DESCRIPTION:

GATCTCCAAC ATCTTTGTGT TGAAGGGCCT ACAGAGTAAA CTGTGGGACT CAATAAACAT 60
 TCGTTACTTG AAA 73

SEQ ID NO:6809

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08038

SEQUENCE DESCRIPTION:

GATCACAGCA GACAGGGTCG CTGCCCTGAT GGCGCTTACA TTCCAGTGGG TCTAATGACC 60
 ATATCTTAGG ACACAGATGT GCCCAGGGAG GTGGTGTAC TGCACAGGAA GTATGAGGAC 120
 TTTAGTGTCC TGAGTTCAAA TCCTGATTCA GGAACACACA AAGCTATGTG ACCTTACACC 180
 AGTCACTTAA CTTGTTAGCC ATCCATTATC GCATCTGCAA AATGGGGATT AAGAATAGAA 240
 TCTTGGGGTT AGTGTGGNGA TTAGATTAAA TGTATGTAAG GCACN 285

SEQ ID NO:6810

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08039

SEQUENCE DESCRIPTION:

GATCAGTTTC TGGCACATAA ATGCCTCAAT AAAGATTAA TTACTTTGTA TAGTGCTTTA 60
AA 62

SEQ ID NO:6811

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08040

SEQUENCE DESCRIPTION:

GATCATTGGC TATGACAGAG AACCCGTCTC TCAAGCAGCA GCTCTTCTCC TATGCCATTC 60
TTGGCTTTGC CTGTCTGAGG CCATGGGGCT TTTNTGTTTG ATGGTCGCCT TCCTAATCCT 120
NTTCGCCATG TGAGGNTCCA TGGGGGGTCA CCGGANCTGT TGATACTGCA ACTACACACC 180
ATTNTTGGTG CTGGGGTGTG TTAAGATTAA ACCATTNANC ACAACGTTTC TCTNAAA 237

SEQ ID NO:6812

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08041

SEQUENCE DESCRIPTION:

GATCAGCAAA TTAAAGAGAA GACCTAGCTA TGTTGGCTGG TTGCTTTCTA TTATCATGGT 60
ATTTGACCAT TTTAGTTTAA ATTCCATGTC AGATAAGTGT AAATAGAAGA GTTTAAAAGC 120
ATGANACATT TCAGANGGTA TCAGTTATAT GATATTCTTT AANCANNTAT GACACATGTA 180
AATCCTCNTG ANTGACAATN CATCTNTNTG TGAAA 215

SEQ ID NO:6813

LENGTH:181

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08042

SEQUENCE DESCRIPTION:

GATCTAAAAG CCATATCCTG TCTTTGGTGG TGGCCTGGTA GGAATGGCTT GTNCTAGTTC 60
TTCAAAGGTA AGATTGACCA AAGCAAGTTC TCATTGGTGG TCTGTGTTTA CATCTTCCGT 120
GTCAAGNTAT TTAAAGCAT GNAAATAAAG CCATTCTTGC CCTTTTTCGT GTGTTTGCAA 180
A 181

SEQ ID NO:6814

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08043

SEQUENCE DESCRIPTION:

GATCTCAGGC TTCTGCAGTT CTCATGACTC CTACTTTTCA TCCTAGTCTA GCATTCTGCA 60
ACATTTATAT AGACTGTTGA AAGGAGAATT TGAAAAATGC ATAATACTA CTTCCATCCC 120
TGCTTATTTT TAATTTGGGA AAATAAATAC ATTCGAAGGA AA 162

01954

SEQ ID NO:6815

LENGTH:431

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08044

SEQUENCE DESCRIPTION:

GATCTCAGCG GGGAGCCACG TCTCTTGCAC TGTGGTCTCT GCATGGACCC CAGGGCTGTG 60
GGGACTTGGG GGACAGTAAT CAAGTAATCC CCTTTTCCAG AATGCATTAA CCCACTCCCC 120
TGACCTCACG CTGGGGCAGG TCCCAAGTG TGCAAGCTCA GTATTCATGA TGGTGGGGGA 180
TGGAGTGTCT TCCGAGGTTC TTGGGGGAAA AAAAAATTTN TAGCATATTT AAGGGAGGCA 240
ATGAACCCTN TCCCCCANCT NTTNCCNGCC CAAATNTGTC TCCTAGNATC TTATGTGCTG 300
GGAATAATAG GCCTTNACTG CCNTCNGNT TTATAGGCCN ANGGGTCCCG GTTCCCGGG 360
AACTGGAACC CTCCTGAGG GGAATCCCG GGGCTCAAAT TACCCCNAA AGGAAAGTGG 420
CCAAGGCGGT N 431

SEQ ID NO:6816

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08045

SEQUENCE DESCRIPTION:

GATCTGTTTC TAAAGCGTTA CGCATCTTTN CTGAAGTATG CTGGAGAGCC TGTCCTTTTC 60
ATTGAACCCC CTGAAAGCTT TGAATTTNAT GCACAGCAGC TAAGAAAATT GAGGGAAAAC 120
TCTTCTTGAA ATAACCAGGC GATACTTTGT TTTGTATATA TTTGTGATTC TGTGTCTACA 180
TGTTATTTTG AAGTATATCT GAGGGAANNG GGAATGGAAA TTTTCTTTAA A 231

SEQ ID NO:6817

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08046

SEQUENCE DESCRIPTION:

GATCCTTCCA GCTGCTCTTC CATAACTTCA TCTCTCCCCT CAACACCTGC AACCACTAAG 60
CCATTTTCCC CCTACCCGTC TGTAATTTTG TAATTTTGAG AATGCCAGGT AAATGGAATC 120
AGAGCGGATA ATCTTTGGAG CATGAAA 147

SEQ ID NO:6818

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08047

SEQUENCE DESCRIPTION:

GATCATTTAT ATTTAAGTTT AAAAGGAGGN TGAGACTGAG TTTTGTAGA GTTATAATNA 60
CATTCAAAT ATACTTTTTT GCATTGNNA AATGTTAANT N 101

SEQ ID NO:6819

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08048

SEQUENCE DESCRIPTION:

GATCAAGCCA AACAGTAAAA ACTACCAAGA GAACACGAGG AAGGCAGAAA CGNTGTTTAG 60
CAACAGTATT CTGCATGGTT CACTGCTTAA GAAAATGCCT TCTGGAATAT TTGTAAACTG 120
AAATTCTGTA TGTGTAAGNG NTGTTTAAAT ATGTTTGGGT CCTAACAGC TTTTAAAAAT 180
TATACTTGGG CNTAANTTCA GCATCTTTTC AAATCANCTC TNTGCNCCGC CGCTGN 236

SEQ ID NO:6820

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08049

SEQUENCE DESCRIPTION:

GATCATTTTG TTTGTTGCTC TCTCTAGTGT CTTCTTCTCT CGTCAGTCTT AGCCTGTGCC 60
CTCCCCTTAC CCAGGCTTAG GNTTAATTAC CTGAAAGATT CCAGGAAACT GTAGCTTCCT 120
AGCTAGTGTC ATTTAACCTT AAATGCAATC AGGAAAGTAG CAAACAGANG TCAATAAATA 180
TTTTTAAATG TNAAG 195

SEQ ID NO:6821

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08050

SEQUENCE DESCRIPTION:

GATCATAAAT ATTTTGTAAT GAAATACTTC CNCTTTTCCA GGGCTTTGTA TGCACTTGTA 60
TAATTACATT GATGGCAATG TAGNGTTTGA ATTTCACTCT GTAAATACTT TTNTGGNAAA 120
TAGNAATTTT NATTGCTTTA AAGTTTTGGA TATGGGTGGN 160

SEQ ID NO:6822

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08051

SEQUENCE DESCRIPTION:

GATCTATAGG AAGATTGAAC CTGAATATTG CCATTATGCT TGACATGGTT TGCAAAAAAT 60
GGTACTCCAC ATACTTCAGT GAGGGTAAGT ATTTTCCTGT TGTCAAGAAT AGCATTGTAA 120
AAGCATTTTG TAATAATAAA GNATAGCTTT AATGAAA 157

SEQ ID NO:6823

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08052

SEQUENCE DESCRIPTION:

GATCCAGNTT GTTGCATCAA TAGTTCTGTT TTTAGTACTG AGTGGGATGT CAGTATAGAT 60
GTACCATAGT AAACACCTGT GGAAGGACGT CAGGAATGTT TCCTGTTATT AGGTATCTAA 120
ATAAAGTTGC TGTAACATT TGTGTACAAA 150

SEQ ID NO:6824

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08053

SEQUENCE DESCRIPTION:

GATCTGTCCA CTTTGCTCTC ACGGACGTGG CATTTGCCAG GAAGGAGAAC CCAGCAGGAA 60
CGGAGGTCTC TGCCTTACC TACAGTGAAG GGGCTGGTAT GTGAAATACT TTCCTGAGC 120
TTAGTGAAAA ATTCATTTTA CACCCTAGTT AGCTCCCAGA AAGGTTNAAC TTTCAAGANG 180
GTCAAAATAT GNAGCCTGTT ATATGTGTAA TAAAAAAGN NNTAGNATAT CCCAAATGGN 240
ACATTTTCAGG NATTAANTAA TTGNAATN 268

SEQ ID NO:6825

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08054

SEQUENCE DESCRIPTION:

GATCTGAGAA GTGAGTGTA GAGTTTAAA TCAACCTCTG TTCTGTGCTA GTTAAGGTAA 60
TAAAGTTGCT GCAGTCCAGG GGGTAGGTAC CTGTGGACGG CTCTGCGAAT AGGNCAGTTG 120
CATTTCTTGG GAATCAAGTG CATCCCTAGG CTGGCAGTGC AGCAGAAATA CTGAATAAAA 180
TGTGACAAAT CTCCAAA 197

SEQ ID NO:6826

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08055

SEQUENCE DESCRIPTION:

GATCAAGTAA AAATGAAGGA CAACGTGAAG TTAAAGTTC GATGCAGCAG ATACCTTTAC 60
ACCTGGTCA TCACTGACAA AGAGAAGGCA GAGAACTGA AGCAGTCCCT GGGGGGGGT 120
TTGGCAGTGA AGGAAGTGA ATNAACCAGA CACTGTGATT GGAAGTGTAT TATATTAAAN 180
TNCTAAAAAT CCTAAA 196

SEQ ID NO:6827

LENGTH:213

TYPE:nucleic acid

01957

TOPOLOGY:linear

CLONE:HUMGS08056

SEQUENCE DESCRIPTION:

GATCATCAGT ACTGTTGTCT CATGTAATGC TAAAACTGAA ATGGTCCGTG TTTGCATTGT 60
TAAAAATNAT GTGTGAAATA GAATGAGTGC TATGGTGTTG AAAACTGCAG TGTCCGTTAT 120
GAGTGCCAAA AATCTGTCTT GAAGGCAGCT ACACTTTGAA GTGGTCTTTG AATACTTTTA 180
ATAAATTTAT TTTGATAAAT AATATTGAAC AAA 213

SEQ ID NO:6828

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08057

SEQUENCE DESCRIPTION:

GATCGTCCTG CAGGTATTTT GCAAGCCCCT ACTGTCCGCC GACATCAGCG TGAATCTCAC 60
ATGGTGCAC TGGCTCCCTG GGGGAGTNTT NGCNTCTCCT GTTGTCTTTT CCAAAAACCA 120
NTAAAAACCA TGN 133

SEQ ID NO:6829

LENGTH:269

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08058

SEQUENCE DESCRIPTION:

GATCTGTAC ATTTTAAAAG TGGGCATGAA AATCTTCTGT TATGTATGTA CTGTCATTAA 60
TTCTGTTATT TTTNCCCACT AGTACTATCA ACTACAGTAA AGACCTTCCT CTGGCCCAAG 120
GAATCAAGTT TCAGTAAAGG TGTTTTAGAT GANCATCCCT TAATTTGAGG TGTTCCAGCA 180
GCTGTTTTTG GNGANGACAA AGNAAATTAA NGTTTTCCCT GAATAANTGC ATTATTNTGA 240
CTGTGACAGT GNCTAATCCC CCTATGGTN 269

SEQ ID NO:6830

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08059

SEQUENCE DESCRIPTION:

GATCTATCCA ATAAAGGAGA GAAACAACCG CACACGCCTG GCTCTCATCA TATGCAATAC 60
AGAGTTTGAC CATCTGCCTC CGAGGAATGG AGCTGACTTT NACATCACAG GGATGAAGGA 120
GCTACTTGAG GGTCTGGNCT ATAGTGTAGA TGTAGAAGAG NATCTGACAG CCAGGGATAT 180
GGNGTCAGCG CTGAGGNCAT TTGNTACCAG ACCNGNGCAC AAGTCCTCTG NCAGCACATT 240
CTTTGGTACT CATGTNTCNT GGCATCCTGG NGGGTNTCT TCGGGAACCT GTTCTGN 297

SEQ ID NO:6831

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08060

SEQUENCE DESCRIPTION:

GATCATGGTG GTTTGGCAGC AGGGAATTTG TCTTGTGGA GCCTGCTCTG TGCTCCCCAC 60
TCCATTTCTC TGTCCCTCTG CCTGGGCTAT GGAAGTGGG GATGCAGATG GCCAAGCTCC 120
CACCTGGGT ATCAAAAAC GGCAGACACA ACATGTNGCT CCACGCGGCT CAAA 174

SEQ ID NO:6832

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08061

SEQUENCE DESCRIPTION:

GATCAATTTT GGAGACCTTG GCCGCCCAGG ACGTGGCGGC AGGGGAGGAC GAGGTGGACG 60
TGGGCGTGGT GGGCGCCCAA ACCGTGGCAG CAGGACCGAC AAGTCAAGTG CTTCTGCTCC 120
TNATGTGGAT GACCCAGAGG CATTCCCAGC TCTGGCTTAA CTGGATGCCA TAAGACAACC 180
CTGGTTTCCT TGTGAACCCT TCTGTTCAA GCTTTTGCAT GCTTAAGGAT TCCAAACGNC 240
TACTGTAATT AAA 253

SEQ ID NO:6833

LENGTH:86

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08062

SEQUENCE DESCRIPTION:

GATCATGAAC CAAAGGAATT TATGTTTTGT AACTTGGGTA CTTTATTTTG CATTTTGTTA 60
TACTATTAAT TANTTTTNTC CTGAAA 86

SEQ ID NO:6834

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08063

SEQUENCE DESCRIPTION:

GATCCAAGTT TCACTTTTTG TGATATAATG AGCCAGTTT CTCAGTAATG TCTACTAAAA 60
AAAAAGCCAT TAACCGGNT CTAATATTG CATGATTCTA ATAAANGTAT GTCAACTTCT 120
TAAA 124

SEQ ID NO:6835

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08064

SEQUENCE DESCRIPTION:

GATCCCCTCA GAAGGCAGGA GTGCTGCCCT CTCCCATGGT GCCCGTGCCT CTGTGCTGTG 60

TATGTGAACC ACCCACGNGA GGGNATAAAC CTGGCACNNG GACCAAA

107

SEQ ID NO:6836

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08065

SEQUENCE DESCRIPTION:

GATCCTCCTG TCTTGGTTTC CCAAAGTGCT GGGATTGCAG GTGTGAGCTA CTGCACCCGG 60
CCCAATAAAA AAATCTCGTT CTGTGAAAGA AATGTTTAAT AAAAGTTGTA TTGTCAAATT 120
TTAAA 125

SEQ ID NO:6837

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08066

SEQUENCE DESCRIPTION:

GATCACTAAG ATTAGCTATA TCTATACAGT CATTAGTTTG ACAAGAAATA GNATCCTGTC 60
AGATGCCAAA GAGTGGGATT TTNATGTTTA ATGATTAAAC ACCATTATTT ATTGACAATT 120
TACCCTGTGG AACTGTATTA TTTCTAACTA TGAAATAAAG GGGTGATGTA AACACAAA 178

SEQ ID NO:6838

LENGTH:222

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08067

SEQUENCE DESCRIPTION:

GATCCCCGGC CAAGCCCAGT CACGNGAATT TAAGGCTCTT CTCTCCGGCT CCAGCCTGTG 60
CCTGTAATTG TCCAGGANTG GCCTAGGCCG ACACCTTCTG CTGCCCCGGA GTCCCCTCCC 120
TGGGTGGGAT GCTCACTACA GCTCTGATGT ATATAGCACA CAGCCCAANT CCGACCCTCC 180
GGTCTGTCGC CAATAAAGNG GGGTGTGTTT CANTCCGGGA AA 222

SEQ ID NO:6839

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08068

SEQUENCE DESCRIPTION:

GATCCCAACA GGCCCTGGCA GCGTCTGGAC ATGTGTAAAC AGCAGCAGTC ACGTTCCTCG 60
GCTGNCACAA CCAACACNNN AGCAGGTTTT CCATTTTCTG TACTTTNATA TTTCTGTTCA 120
ACCTGTTGGT TTCTACAATG ATTTTAAACA TTGNAAGNC AGCCTTGNGT ATATTTTAA 180
AAATTATATT NAAAATGN 198

SEQ ID NO:6840

01960

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08069

SEQUENCE DESCRIPTION:

GATCATGAAA CTTAGTAGAG GGGATTGTGT GTATTTNATA CAAATTTAAT ACAATGTCTT 60
ACATTGATAA AATTCTTAAA GAGCAAAACT GCATTTAATT TCTGCATCCA CATTCCAATC 120
ATATTAGANC TAAGNTATTT ATCTATGAAG ATATAANTGG TGCAGAGAGA CTTTCATCTG 180
TGGATTGCGT TGTTTCTTAG GGTTCCTAGC ACTGNTGCCT GCACAAGCAT GTGNATATGT 240
GANATNNNAT GGATTCTTCT ATAGCTAAAT GNGTTCCTC TNGN 284

SEQ ID NO:6841

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08070

SEQUENCE DESCRIPTION:

GATCCACCTG .CTTCGGCCTC CCAAAGTGCT GGGATTACAG CTGTAAGTCA CTGATNCCGG 60
NTGCATGTCA AGCACATTGG NAAGTTCTTA CAACAATTCT GNTGGAGGNT TTTN 114

SEQ ID NO:6842

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08071

SEQUENCE DESCRIPTION:

GATCTGTCTC TCAAAGGAAG AAACAAAAAC CAAAATTTT GACTGCAAAA GATTGACTAA 60
TTCTAGGTGC AAATAACTGG AAATTTAGGA TTGTTATTGT ACTACACAGG TCACAANGTT 120
CCAAACCTAT TTCCCTTGTA ATTTTtagTG CATGATTTTT CAGAATGCAG TTTCTATCTT 180
TTTAGGTGCA ATATTACGAA CTGCTTAGGT CAGANCANTT TNGTNTCTCC AGTTTTTTCT 240
CCCTANGTTA CAN 253

SEQ ID NO:6843

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08073

SEQUENCE DESCRIPTION:

GATCTTATAA CCTCATGTT TCCTAATCAT TTTATTTTCT CTCCTGCTAG TACTGTGCCG 60
CTTCCCCCTC CCCCACACA AAATAAAAAC AGTATCTGCC AAA 103

SEQ ID NO:6844

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08074

SEQUENCE DESCRIPTION:

GATCCGTGCC CCACCTCTCC CCAGTTAAGT GCCTTCACAC AGCACTGGTT TAATGTTTAT 60
AAACAAAATA GAGAAACTTT CTTATAAAT AAAAGTAGTT TGCACAGAAA 110

SEQ ID NO:6845

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08075

SEQUENCE DESCRIPTION:

GATCAGGGCT GAGGGTAAGG AAAAGAAGAG ACTAGGAAAG CTGGGCCCAA AACTGGAGAC 60
TGTTTGTCTT TCCTGGAGAT GCAGAACTNG GCCCGTGGAG CAGCAGTGTG AGCATCAGGG 120
CGGAAGCTTT AAAAGCAGCA GCGGCNTGTG CCCAGGGCA CCCAGAATGA TTCCCTATG 180
GGCACCAGGC CAGNGAAAAA ATTGGGCAGC NTCTTTAAAG GGNGGAAAAA TGTTTTGAGC 240
CCCAAA 246

SEQ ID NO:6846

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08076

SEQUENCE DESCRIPTION:

GATCTACCTG CATATAACAG TCTCTAAGTT TTTTTTCAA TCTTGCANTT TGATAATTTT 60
GATTTTGGCC ANATTAGNNT AATTTGGGAC TATCCTGAAA CAGNN 105

SEQ ID NO:6847

LENGTH:26

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08077

SEQUENCE DESCRIPTION:

GATCAAAAGA GCTGTCTGAC TGCAAA 26

SEQ ID NO:6848

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08078

SEQUENCE DESCRIPTION:

GATCCCTTGA GCCCAGGAGT TCCAGACCAG CCTGGGAAAT ATAGGGAAAC CCTGTCTTTA 60
CAAAAAAATA TTTTAAAAAT TAAA 84

SEQ ID NO:6849

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08079

SEQUENCE DESCRIPTION:

GATCAGATTC CTGACTAACC CCTCTCTTAG AGCTACAGCG AGCTGCATTA CCAGCTTAAA 60
ACACTTCTTA GGGATTAAAT ATAGNTGTNA TTTTCAAAA TCGTTTTTAA TTAAACTGT 120
GTTTGTAGTGT AAAATTGTTA ACCTTGTAAG ATGGATANTG TGTATANGAN TGTAGGCCTT 180
AACTATTTCA CATGAGTCAA ANCANGGCNG CTTTAAN 217

SEQ ID NO:6850

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08080

SEQUENCE DESCRIPTION:

GATCTCACCC AGTGTGCAAT TTGTGAAAAT GAACCAAATG TCATTACTTT TGTCTTAAAG 60
CAAAGTCTAT TTCAAGNATA TGNACAGCAN AAA 93

SEQ ID NO:6851

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08081

SEQUENCE DESCRIPTION:

GATCAATGAA CCATCTCTTC TGGGCAGTTT TGTTGAAAAT AAAGGTTTCT CTTTGATTTC 60
AAGAATGACC AAA 73

SEQ ID NO:6852

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08082

SEQUENCE DESCRIPTION:

GATCACCGGT TTCCGACTGA GTCTGGGGAT TTNGGCCTTG TTGAACCCTC CTACGGTGCC 60
CNGGGAATTT GAAANACGCT TTCTGCATNG ATATNTGGGC CCTN 104

SEQ ID NO:6853

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08083

SEQUENCE DESCRIPTION:

GATCAACATC ATTAAAGATT ATGTAAAAAG TTAAGGCT TATGAGCCTA AGTTTGTTC 60
TATATTACCA TATTTACTGA ATNTTCTGGN AAAGNAACTT TANTAAGTT TAATCTNAGG 120
AAA 123

SEQ ID NO:6854

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08084

SEQUENCE DESCRIPTION:

GATCACTTGA GCCTAGGAGG CAGNGGTTCA AGTGAGCTGA GATGGCACTC CTGCGCTCCA 60
GCCTNGGTGA CAGCGTGAGA NNCTGTCTCA N 91

SEQ ID NO:6855

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08085

SEQUENCE DESCRIPTION:

GATCTGTCTAG NACCATTTGA AAAGCTGCTC AAGAGCAGTT GCTTATATAT AGTAGGATTT 60
TACTTTTTTC TGCTTATGTA NTACTATATG CTTAAAAAAC CTGGAGGAAT ACTTACCAA 120
GAGGAGTAAC CATCTCTGAG GGTGGGATTC TGGGGGANTT TTTGTTTTTT TCTGTTTTCT 180
ATANTGTGCA NCTNTTNTAG TATGTNTNTT NCTAATTGN 219

SEQ ID NO:6856

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08086

SEQUENCE DESCRIPTION:

GATCTTNCTC CATTTACAGT ACATTCTTAG GATGTATGTA GTAAATAAAG CTTTCTTTAA 60
AGCAAA 66

SEQ ID NO:6857

LENGTH:43

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08087

SEQUENCE DESCRIPTION:

GATCACCCCG TAGGAAATAA AGCAGGCATC TCTGGACCTC AAA 43

SEQ ID NO:6858

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08088

SEQUENCE DESCRIPTION:

GATCAAAAGA CAGNTAAATN TTTCTTCTAG AACACAGTTA CCCCCTTGCT TCATCTATTG 60

CTAGAACTAT CTCATTGCTA TCTGTNATAG ACTAGTGATA CAAACTTTAA GAAAACAGGN 120
TAAAAAGATA CCCATTGCCT GTGTCTACTG ATAAAATTAT CCCAAAGGTA GGTGGGTGTG 180
NTAGTTTCCG NGTAAGACCT TAAGGCCACA GCCAANTCT TAAGTACTGT GTGNCCACTC 240
TTGTTGTTAT CACATAGTCA TNCTTGTTG TACTATGTGA TGGTTAACCT GTAGCTNATN 300
ANTNTACTTA TTATTCTNTT CCTCCTTTAC CTCANCNN 338

SEQ ID NO:6859

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08089

SEQUENCE DESCRIPTION:

GATCGTTTGC AAGTAACTGA ATCCATTGCG NCATTGTGAA GGCTTAAATG AGTTTAGATG 60
GGAAATAGCG TTGTTATCGG NTGGGTTTA AATTATTTGA TGAGTTCCAC TTGTATCATG 120
GCCTACCCGA GGAGANGNGG NGTTTGTTAA CTGGGCCTAT GTAGTAGCCT CATTTNCCAT 180
CGTTTGTATT ACTGACCACA TATGCTTGTC ACTGGGCANG AAGCCTNTTT CNGCTGCCTN 240
CACGCANTTT N 251

SEQ ID NO:6860

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08090

SEQUENCE DESCRIPTION:

GATCTTAATA TAAATNCACT TTCATTTTNN ATAGCTGTCC CATCTGGTCA TTTGGTTGGC 60
ACTAGACTGG TGGCAGGGGC TTCTAGCTGA CTCGCACAGG GNTTCTCACA ATAGCCGATA 120
TCAGAATTTG TGTTGAAGGA ACTTGTCTCT TCATCTAATA TGNTAGCGGA NAAAGGAGAG 180
GAAACTACTG CCTTTAGAAA NTATAAGTAA AGTGATTAAA GTGCTCACGT TACCTTGNC A 240
CATAGTTTTT CAGTCTATGG GTTTAGTTAC TTTAGNNGGG NAGCNTGTNA CTTATATTAN 300
TAGTANTTTN GTAAAGTTGG NTGGATAAGC TATCCATGTT GCCAGGTTCA TGGATTNGN 359

SEQ ID NO:6861

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08091

SEQUENCE DESCRIPTION:

GATCCCCAAA CCACAAATAC ATATGTGTGC CTAAGTTTGT GCATGCATAC ATTAACAGG 60
ACATAAAGTG TTAAA 75

SEQ ID NO:6862

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08092

SEQUENCE DESCRIPTION:

GATCATCATG GCAAAACCAG CTGGTGGGCC CAAGCCTCCA AGTGGGAAGA AAGACTGGGA 60
 TGATGACCAA AATGATTGAA ATTGGCTTAA TTTTACTGT AGGTGAAGGC TGTATTGTA 120
 GTAGTACTCA AGAATCACCT GATGTNTTCT TATTCTCCTT AAATTAAGAG TTATTTGTN 180
 TTTGTNTTCT TGGCTGGATG TTATAATAAN CATATTGTNA CTGTCAAA 228

SEQ ID NO:6863

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08093

SEQUENCE DESCRIPTION:

GATCATGCCT ACTTCTTCT NTGTATCTCC CTCCTTCCCA GCCCACC CGG GCAGCAGACT 60
 CTNATGGAAG NAAGGTGCCG TAGTGGGNTT TTAGAAACTA ACGGGACTGG TTTCAAAGC 120
 AGTTATCTTG GAAAACGTGT TATTCCAGCG ATGTGACTTT TTNAGAATA TTTCTTGAA 180
 TCATATTCAG AGTCTGGGGC TGTGTGTTGA GCAGCCTTAA GGNTGCTAGA CACTCATTTA 240
 GTGCCCAGGG AGTCCAGCGA ATGACGTCTG TGGCCAAGCG AGGTCTCAGG TGCAAAGCN 299

SEQ ID NO:6864

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08094

SEQUENCE DESCRIPTION:

GATCCTCTGA ACCTGCAGAG GCCCNCTCCC CGAGCCTGGC CTGGCTCTGG CCCGGTCCTA 60
 AGCTGGACTC CTCCTACACA ATTNATTNA CGTTTTATTT TGGTTTTCCC CACCCCTCA 120
 NGNNTGTCGG GGAGCCCCTG CCCTTNACCT AGCTCCCTTG GCCAGGAGCG AGCGAAGTGT 180
 NGGCCTTGTT GAAGCTGCCC TCCTCTTCTC CCCTCACACT ACAGCCCTGG TGGGGGAGAA 240
 GGGGGTGGGT GCTGCTTGTG GTTTAGTCTT TTTTTTTTTT TTTTNTTTN TNANAAAA 298

SEQ ID NO:6865

LENGTH:296

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08095

SEQUENCE DESCRIPTION:

GATCTGCGGG GCAANTTCAA GCNNNCCCCA CTGCGGAGGG TGCGCATGTC GNCCGATGCC 60
 ATGCTCAAGG CCCTGCTGGG CTCGAAGCAC AAGGTGTGCA TGGACCTGAG GGCCAACCTG 120
 AAGCAGGTCA AGAAGGAGGA CACAGAGAAG GAGCGGGACC TGCGAGACGT GGGTGACTGG 180
 AGGAAGAACA TCGAGGAGAA GTCTGGCATG GAGGGCCGGA AGAAGATGTT TGANTCCGAG 240
 TCCTAGGCCA CTCGCTGCCC CTACGNCTGC CCCGGTGCCC GGTTCCAGC AGAANN 296

SEQ ID NO:6866

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08096

SEQUENCE DESCRIPTION:

GATCCTGTTC TGTCAGCTGC ACCCTGAGCA AAAACTTGCC ACACCAGNGC TCCTAGAAAC 60
AGCCCAGGCT TTGGAGCGGA CCCTGAGGAA GCCTGGGAGG GGTGGGATG ACACGTATGT 120
CTTGTCAGAT ATGCTCAAGA CGGTGAAAAT TGTGTGACTG CTTAGGCCAA GCAGCCCTCC 180
TGCCTAGAAT GACCTTGGAC TCCCAGCCTG CCAGNGAATG NAGAAATACA ACGCACAGTA 240
CTTTTGAAGC TTCGTATTTT TCTTGGTTTC ACACTCAGCT ACATGTGACC TCCAGCTTGG 300
TGCGGTTAGN 310

SEQ ID NO:6867

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08097

SEQUENCE DESCRIPTION:

GATCAGTTCA AGAAGGTAAT CCAAGGGCCT GATGACTCTT TTGGTAACCA GACACCAATC 60
AAATAAGGGG AGGAGATGAA AATGGAATNA TTTCTTCCAT GCCACCTGTG CCTTTAGGAA 120
CTGCCCAGAA GAAAATCCAA GGCTTTAGCC AGGAGCGGAA ACTGACTACC ATGTAATTAT 180
CAAAGTAAAA TTGGGCATTC CATGCTATTT TTAATACCTG GNTTGCTGAT TTNCAAGAC 240
AAAATACTTG GGGTTTCCA ATAAAGATTG TTGTAATATT GNAAA 285

SEQ ID NO:6868

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08098

SEQUENCE DESCRIPTION:

GATCAGACTC TGTATCAAAA GTACCTTTGC CCTTAGGAAG AGTGAGTATT GGAGTCATCT 60
TATCTATTAC TCCAAACCTC CCTTTTNATT TCTTGAGCCT GGCTTGGACC TTGGCATTCC 120
GTTTGANTTC CTTCTAACTG GAACATTTGT GTTGTATCTG TAACACTGGC ACTGAAATAA 180
AGACCACACG GTTAAAGNAA A 201

SEQ ID NO:6869

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08099

SEQUENCE DESCRIPTION:

GATCATGTGC TGCCTTTTAC TGCTGAATTA AAACAGATAT TTCACGNAAA 50

SEQ ID NO:6870

LENGTH:43

TYPE:nucleic acid

TOPOLOGY:linear

01967

CLONE:HUMGS08100
SEQUENCE DESCRIPTION:
GATCTTCAGT GTAAATNACC ATGTATAAAC TGTAAAGTGC AAA

43

SEQ ID NO:6871
LENGTH:247
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08101

SEQUENCE DESCRIPTION:

GATCATTTAA TATATTCATA TTACCAAGAC TATTATACTG GAAGTGGTTT TTGTGTTATA 60
AAGGTTTAAT TTTACATANG GCAGTTACTT AATGTGATTT TNAACCCTTA AAAAAGTGGA 120
GATGTATACA TTTGTTAACA ATGCCATGAA AGCATTTNCT TTCTCCTAAG GAAAAGTGAA 180
TTTCTTATCA GAATATCTGG CTGGCCCTGT AATTAAATT AAAATAAANT TTTGGCGNAN 240
CAGCAAA 247

SEQ ID NO:6872
LENGTH:288
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08102

SEQUENCE DESCRIPTION:

GATCTATCTG AGAACAAAGA AGTCGACAGA ATAACATTGA TGACTTTTTA AATAATTAAT 60
TTATTTGAAG AATGCTTGCA TACAAAAAGC TTCCTGCAGG AATTTTAAAC AAGCTGTCCT 120
TGGTTATCCC AGGCAATGTC AGTTGATTTA NTTAAGTTTA CATGCAAAAG NGAATACAAT 180
TGTAACATTA ATTGGAACAT TAAGTTGGCT TATAAGCAGT ATTTCCACTG CTCCTACAAT 240
TGNTTTNNGT TATTTGATAN TTNATTTNAN ATTNGTNTTT GGTGTGGN 288

SEQ ID NO:6873
LENGTH:294
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08103

SEQUENCE DESCRIPTION:

GATCGTACCT ATTGCACTCC ATCCTGGATG AAAGAGCCAG ACTCTGTCTC AAAACAAACA 60
AAAAAGCGTG GGGACTTCTG GGGACAGACA AGGTGCCTGT AATATATTTN CTCAGTCTTT 120
GCCCTGAATG GTCTCAGCTT GANACCATNT CAAACTGGAG AGAAGCAAGC CAGCCAATAG 180
AATGGGGTGA TTTACAGGGA TTTCTGTTTA CTGTCAAAT ATTTCTCATC TGCACTATGT 240
TTCCATTTGT GGTCTGAAG GAAATTCTTA TAACTCAACA TTTGTCTGGT CTTN 294

SEQ ID NO:6874
LENGTH:295
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08104

01968

SEQUENCE DESCRIPTION:

GATCCGACAC TCCAGGCAGA GCAGAGGGCA GGAGAGGCC AAAGAGCTAG GTCAAGCAGC 60
 TGGCTCCCCT GGAAGGGGAG CCGGGAGACA GGGAGGTCCT CACTGCCC CCGTGGCCAC 120
 GCATGGCTGT CTGCACACTC CATCAGGAGG AAGGGCAGGG GAGAAGTCAC ATGCNGTACA 180
 GTGAAACTNA TCAGTGTAC ACACGCCAG CAGGAGGGGA GAGCTCTGCT CCACACGCTG 240
 GCGGCCTTGG CTGCTCCANA GCAATCCGNT TGCTCCANCT TCAAGCCATT GGGGN 295

SEQ ID NO:6875

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08105

SEQUENCE DESCRIPTION:

GATCCTGTAT TATCCATCTA CATCAGAACC AAATACTTC TCCAACACCC GGCAGCACTT 60
 GGCCCTGCAA GCTTAGGATG AGAACCACTT AGTGTCCCAT TCTACTCCTC TCATTCCCTC 120
 TTATCCATCT GCAGGTGAAT CTTCAATAAA ATGCTTTTGT CATTCAA 168

SEQ ID NO:6876

LENGTH:141

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08107

SEQUENCE DESCRIPTION:

GATCCTTGAG ATGACTGTAG CCCTGGCTGA CAACTTNATT GCTGCCTGTN AAGGACCCTG 60
 AACCAGAGGA CTCAGCGAAA TTGTGCCCAG ATTCCTGACC TACAGCGGCA GTGAGATAAT 120
 AAATGCTGTT GAGGTCACAA A 141

SEQ ID NO:6877

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08108

SEQUENCE DESCRIPTION:

GATCTGCTCA CCCTCGGTNC ACANCAGTGT CAGCCATGCA AGCAGGACAG AATGGTGACT 60
 GGGTGCCCAT NGTGAGCTGT GTATTCCTA GGAGGTAGAA AACAATAAAA AATTGCATGC 120
 TAAA 124

SEQ ID NO:6878

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08109

SEQUENCE DESCRIPTION:

GATCCTCCTG CCTCAGCCTC CTGGGTGGCT GGGACTGCAG ATACATGCCA CCATGCCGGA 60
 CAAATTTNTT GTATTTNAG TAGAGATGGG GTTTTACCAT ATTGCTCGGA TTGGTCATGA 120

ACTCCTGGAT TCAAGCAATC TGCCACCTA GCCTCCCTAA GTGCCTGGCC AAATTTTGG 180
TTTAAATAGT CGATTGTGT ATATTTTGT GTAGTATCTA CATATATTTA ATACATTTAT 240
NTGTTGNTGN AAAAAGTANA ATTTGTAAAA NNTTGNAAA 280

SEQ ID NO:6879

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08110

SEQUENCE DESCRIPTION:

GATCATTGTT GAACCTCAGC TCCAGTGTCT CTCCAGAATA AGACATTGGC ATTCAAATGT 60
CTATATCTTG TTAATTACAA AATAAAAAAC AGATTAATTA GTGGCTTTTA AATTGTAGTT 120
ATATCNGTGT ATATACACGC GGGGNACTGT ATAAAGACAT ACTAAAGGGC ACAGATTAAA 180
ATAAGTATTA TTANTAAA 198

SEQ ID NO:6880

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08111

SEQUENCE DESCRIPTION:

GATCAAAGTT GTTAAATTA TAAATNTATG ATGCAGNAAT AAAATTGATA TATTTTGATA 60
TTCAAA 66

SEQ ID NO:6881

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08112

SEQUENCE DESCRIPTION:

GATCTCTTAC CTTTGGAAAA TAGGGGTTAG GCATGAAGGT GGTGTGATT AAGAAGATGG 60
TTTTGTTATT AAATAGCATT AANCTGGAAT TGACAAGAAA 100

SEQ ID NO:6882

LENGTH:30

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08113

SEQUENCE DESCRIPTION:

GATCAAAGAA ATAATTCTTT TGCCACTAAA 30

SEQ ID NO:6883

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08114

SEQUENCE DESCRIPTION:

GATCACTACA ACAATTTGNC TGCCTCCAAG GTCCTCTGAG GCAGAAGGCT CTGGGGNTTC 60
TGCTGTCCTT TGGNGGGTGT CTTCTGGGTA GAGGGATGGG AAGGAAGGGA CCCTCACCCC 120
NGGCNCTTCT TCTGACCCTG CCACTAAAAA ATTTATGGNC CAAGGGCNCA AA 172

SEQ ID NO:6884

LENGTH:291

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08115

SEQUENCE DESCRIPTION:

GATCAGCAAT NAGGGTGAGG AAAAAATCTT CTTAATCAAC AAGCTTCACT CCATCTACGA 60
GAGGAAGGAG AGGGAGGAGA GGAGCAGGT TGGGACAACC GAGGAGGCTG CGGCACCCCC 120
TGCCCTGCTC ACAGATGAAC AGGATGCCTA GGGGGACGGC GATGGGCCTC ACGGGCCCCG 180
CCAGCACCTT GAGACCACAC TGTTCCTCC CAGTGACCCT GCTGGGACAC CAGGACAAGG 240
AAGACAGTTT CGCCTCTNGA AAGCCGCAGC TGCCTCTAGG CTGGAGCTGG N 291

SEQ ID NO:6885

LENGTH:30

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08116

SEQUENCE DESCRIPTION:

GATCTGTAAA TAAACTTAC ATTTTCAAA 30

SEQ ID NO:6886

LENGTH:291

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08117

SEQUENCE DESCRIPTION:

GATCTGCCTG CCTCGGNCTC CCAAGTGCTG GGATTACAGG CGNGAGCACG TGCACCCAGC 60
CTAGAATCTT GTATAATATG TAATTGTAGG GAACTGCTC TCATAGGAAA GTTTTCTGCT 120
TTTTAAATAC AAAAATACAN AAAAATACAT AAANTCTGAT GATGAATATA AAAAAGTANC 180
CAACCTCATT GGNACAAGTA TTAACATTTT GGAATATGTT TTATTAGTTT TGTGATGTAC 240
TGTTTTACAA TTTNACCAT TTTTTTCAGT AATTACTGTA AANNGNNNNN N 291

SEQ ID NO:6887

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08118

SEQUENCE DESCRIPTION:

GATCCCAAGC TCAGTCCCCA CAAAGTTCAG GGCCGGTCGG AGGCAGGGGC AGGTCCGGGT 60

CCAAAGCAAG GACACCACAG CTCTTCCGAC TCCAGCAGCA GCTCCAGCGA TTCGGACACG 120
GATGTGAAGT CCCACGCTGC TGGCTCCAAG CAGCACGAGA GCATCCCGGG CAAGGCCAAG 180
AAGCCCAAAG TGAAGAAGGA GAAGGGCAAG ANGGNGAAGG GCAAGANGAN GGAGGCTCCC 240
CACTGANGGG CCCTGGACAG GGCTCATTAA ACCTTCCTCT CTGCCAAA 288

SEQ ID NO:6888

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08119

SEQUENCE DESCRIPTION:

GATCCGCATT GAAGACCCAC CCCGCAGAAA GCACATGGAA TTCCTGGGTG GTGCAGTTCT 60
AGCGNTTATC ATGAAAGNCA AAGACAACCT TTGGATGACC CGACAAGAGT ACCAAGAAAA 120
GGGTGTCCGT GTGCTAGAGA AACTTGGTGT GACTGTTCGA TAAACTCAA AGCTTGTTCC 180
CATCATACCC GTAATGCTTT CTTTTTTCCT TTATTGCCAA TCTTTGAAC TATTCAACTC 240
CAGGACATGG AAGAGGCCTC TNTCTGCCCT TTGACTGGAA NGGTCAANGT TTTATTCTGG 300
TTGTCTGN 308

SEQ ID NO:6889

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08120

SEQUENCE DESCRIPTION:

GATCATGTCT TTTGCAGGAA CATGAATGGA GCTGGAGGCT ATTATCCTTA GCAAACATAAT 60
GCAGGAACAG AAAACCAAAT ACTGCACGTN CTCACCTATA AGAGGGAGCT AAATNATGAG 120
AACTGATGAA CACAAAGAAG GAAACAACAC ACAATGGGGT CTACTTGACA GTGGAAGGTG 180
GGAGGAGGGN GAGGAGCAGA AAACATAACT ATTGGATACT GGGCTTAGTA TCTGGGTGAT 240
GAAATAATCT GTACAACAAA CCCCCATGNC ACAAGTTCAC CAATGTAACA NACCTTCACA 300
TGTACCCN 308

SEQ ID NO:6890

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08121

SEQUENCE DESCRIPTION:

GATCAATTCC CTTGAATAGG GAAGTAACAT TTGCCTTAAA TTTTTTCGAC CTCGTCTTTC 60
TCCATATTGT CTTGCTCCCC TGTTTGACGA CAGTGCATTT GCCTTGTNAC CTGTGAGCTG 120
GAGAGAACCC AGATGTTGTT TATTGAATCT ACAACTCTGA AAGAGAAATC AATGAAGCAA 180
GTACAATGTT AACCCTAAAT TAATAAAGA GTTAACATCC CAAA 224

SEQ ID NO:6891

LENGTH:28

TYPE:nucleic acid

01972

TOPOLOGY:linear
CLONE:HUMGS08122
SEQUENCE DESCRIPTION:
GATCAAATAA AGTTATAAAA TTGCCAAA

28

SEQ ID NO:6892
LENGTH:140
TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS08123

SEQUENCE DESCRIPTION:

GATCAGGCCT GGCCACTCCT CTTTGGAGGG CGGTTGAGGC CCACCTGCCT TGGGCTTCCC 60
AATNCTGATT CCNNTACTAC ACCCTTCCCA GTTCTATTCC CCTCACCACA CTTGCTCCAA 120
TAAAACTATT TATATACAAA 140

SEQ ID NO:6893
LENGTH:163
TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS08124

SEQUENCE DESCRIPTION:

GATCGTCATC CCTTCCTGGA GTTCCTATCT TCCAAGATGT GACTGTCTGG AGTTCCTTGA 60
CTAGGAAGAT GGATGAAAAC AGCAAGCCTG TGGATNGAGA CTACAGGGGA TATGGGAGGC 120
AGGGAAGAGG GGTGTTTCT TTTAATAAAT CATCATTGTT AAA 163

SEQ ID NO:6894
LENGTH:253
TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS08125

SEQUENCE DESCRIPTION:

GATCACCTGA GGTCAGGAGT TTGAGACCAG CCTGGCCAAC ATGGTGAAAC GCCATCTCTA 60
CTAAAATTGA AAAATTAGCT GGGCATGGTG GCAGGTGCCT GTAATCCCAG CTATTGGGGA 120
GGCTGAAGCA GGAGAATCGC TTGAAACAGG AGGCAGAGAT TGCAGTGAGC CGAGNGGGGN 180
GCCACTGCAC TCCAGCCTGG GCAACAGGAA CAAACTCTA TCTCAAAAAA TAAACAAGA 240
TTTTTCTGCG AAA 253

SEQ ID NO:6895
LENGTH:99
TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS08126

SEQUENCE DESCRIPTION:

GATCACTTGC AGCCAGNAA GTTTGAGACC ACCCTGACCA ACACAGTGAA ACCCNCTCTC 60
TAAAAAAGTT TGTTTTTAAA GTCTCCTTGA AACATCAAA 99

SEQ ID NO:6896

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08127

SEQUENCE DESCRIPTION:

GATCAAGCTA TGCCTGATNC TGCCTTAAGC CTTATNAGGT CGCCACGGAA CCGCAGAAAC 60
TCCTGGTGGG CAGAGCTGTG TGTGCCATCT TCATCATTGC ATTACCACCA CCAAGCACAG 120
TGCCTGGCAC AAAAGAGTTG CTCAATAAAT AAATCAGGAT GANTGGNTAA ATACATGGNT 180
AGGCACTTTG AGCTACAGAT GCGTTTAAAT ACTTTGTGTT TTTCTTAGTC AAACATGTGC 240
ANTTANGCAT GTGATAAATG CTATGATGAC CACAANANTG CACAAA 286

SEQ ID NO:6897

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08128

SEQUENCE DESCRIPTION:

GATCATGGTG AAATATTTTN GATATATAAA TTCCTTAAGC TATTGTAACC ATGTTTTATT 60
GCAAAGATGT AAAATATGCC AGATGTGTGT NAGTTGAAA TCAAAAAAAG NAAAATAAAN 120
TATGCAAAGA NTTCAAA 137

SEQ ID NO:6898

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08129

SEQUENCE DESCRIPTION:

GATCCGCAAC AACTCAGCCA TCCACATCCG AGTCTTCAGG GTCACACCCA AGTAATTGAA 60
AAGACACTCC TCCACTTATC CGNTCCGTGA TATGGCTCTT CGCATGCTGA GTACTGGACC 120
TCGGACCAGA GCCATGTAAG AAAAGGCCTG TTCCCTGGAA GCCCAAAGNA CTCTGAATTG 180
AGGGTGGGGG TAATTGTNTG TTGGTNGGCC CAGTTAGTGG GCTTTNNTAA GTGTGTGTAT 240
GCGGTCTGTA NCTATTGCCA TATAAATAAA NAATCCTGTT GNACTNGTAN 290

SEQ ID NO:6899

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08130

SEQUENCE DESCRIPTION:

GATCATAAAA CGTTGTAAGT TTTCTAAAAAC ACATAAGCTC TCAATAAACG TTAGCTTATC 60
ATTGTCACAA A 71

SEQ ID NO:6900

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08131

SEQUENCE DESCRIPTION:

GATCAAACAC TGTCAGAATT GCTGAAATCA ATACACAAAG AGATAAAGTT TAGCTTCTTT 60
TTACTATTCA ATATTGAACA TAATATTGTT AAATATNGNG ATGAAATGCT GTTGGATNTG 120
CTNCATTAAA TCTTAATGTA ATATTGTAAG NCTTTTGAGA ATATACTTGA TTAATAATGTG 180
AAAGNNGGGN TTGTTANCTT ATTGCTATNC N 211

SEQ ID NO:6901

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08132

SEQUENCE DESCRIPTION:

GATCATCATC TNCTTGCGGA CTTCTCTGCC TGGTCTTGTG TGTCTGTGA TTCAAACAAT 60
AAAANGCTGG TNGAACTTAA A 81

SEQ ID NO:6902

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08133

SEQUENCE DESCRIPTION:

GATCAGACAC TGCCTTTTGT GTGTTTGCTG CCTNTGGATN CTTTTTTAAA AAGACTGTGA 60
CATATTAAAA NAGTGACAT ATATAAATAT NACCTCTTTT GCTGTACAGT TGTGATAGAG 120
ACTGAAGNTT TTATTTTTNG TGTGCTTTTT ATAAGNAAAA ANTAAATACA CTAAN 175

SEQ ID NO:6903

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08134

SEQUENCE DESCRIPTION:

GATCATCTAA TTCTCTGTGG AATAAATACA CACATATATA TTACAAGGGA TAATTTAGAC 60
CCCATAACAAG TTTATAAAGA GTCATTGTGA AA 92

SEQ ID NO:6904

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08135

SEQUENCE DESCRIPTION:

GATCTGGAAA ATACTGGAAA ATGTGATACT TAGAATACTT TGGCTGCTAA GGAAACTTCC 60

TCTCCATTGC AGAATAGCTG AGCCAAGTNA GTGAGTTTNC AGAAAGCAGG TGGTGAGCTC 120
 NTGCTTGCTG GAGGTTGCCA TGGAGGGCCA TTCCTGCCCC GCAACAGCAC CGTCCTGCAG 180
 GGAGCCACTT GGCAGAAGGG TGCAGGGCTG CTGGTGTGAG AGCAAGAGGG CTACAGGGAA 240
 AGGGCCCTTT CTCAGGGGAT GTNGNTTTT TAAAAGGTTT GGGNACACTT GCGGGGTTG 300
 CTAAAATTGA GN 312

SEQ ID NO:6905

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08136

SEQUENCE DESCRIPTION:

GATCTCTCTT GCAGCTTGAG AATGTCCCAG TTAAGCCACT TAAAAANTCC TCTNTCCTGC 60
 AGCCCAACAC TTNCTAAGA GGTACAGAAA NGANAGGAAA TAAACACAC ATCATTATGG 120
 AAA 123

SEQ ID NO:6906

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08137

SEQUENCE DESCRIPTION:

GATCTCAACA CAGACCCTNA CCAGCTGATN AATNCAGTNA ACACACTGGA CAGGGATGTC 60
 CTCAACCAGC TACACGTACA GCTCATGGAG CTGAGGAGCT GCAAGGNTTA CAAGCAGTGT 120
 AACCCCCGGA CTCGAAACAT GGACCTGGGG ACTTAAAGAT GGAGGAAGCT ATGAGCAATA 180
 CAGGCAGTTT CAGCGTCGAA AGTGGCCAGA AN 212

SEQ ID NO:6907

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08138

SEQUENCE DESCRIPTION:

GATCAAGCCA AAAGAAATAT TTTNAAATA AGCCCTTTTC AAAAGTTTTT GAATTTATAG 60
 AAAGCACCAA TGAATAACAT ATTTCTGTTT CGTTAATGTC AGCTGCCTGA ACATTCAGCA 120
 GTTTATAAAT TGCTTAATTT GTGTNATCTA TTATCCAGTA AACCCATAGT TCCATGATAT 180
 GTCACAGGNA TTGTNAGGTC CTATTTTAAA GGTACAGTCT TGTGGNATGT CATCN 235

SEQ ID NO:6908

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08139

SEQUENCE DESCRIPTION:

GATCCTTTGA GCCCAGAAGT TGGAGACCAG CCTGGACAAC ATGACAAAAC CCCATCTCTA 60

CAGAAAATTT AAAAATTGGC CAGGCGTGGT CGCGCACGCT GTAGTCCCAG CTATTCAAAA 120
GGCTGAGGTG GGAGGATTAT GTCCCTGGAG CCCAGGAAGT GGNGGTTGCA GNGATTGCAT 180
CACTGCATTT NAGCCTGGGT GACAGNGTAC GCCNCTGTAT CAAA 224

SEQ ID NO:6909

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08140

SEQUENCE DESCRIPTION:

GATCCTGCTG GCCAGAAGCA AGCGGGNCG GCAATAAATC CAAGAAATTG TCCCAACAAC 60
CACCAATTCT TACGGAGGAN TATTATTTAG CCAGCAGGAG TCGNGTTTGG TTTACTGCTT 120
TTACTGTTTT GNGTTCATGN CTNTTATTT TAATGGCGTT AAAAGCACAG GCAAATGTCT 180
TTGTAATGC AGCTTAGTAT GANTTCTNTT ANAGN 215

SEQ ID NO:6910

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08141

SEQUENCE DESCRIPTION:

GATCACAGAC TCTGAAGNCA GACTGGCAAG ATTCAAATCC CGACTGCCAT TTTTAACTGA 60
AAGACCTTAG GTAAGTTACC TAACCTCTCT GTACCTGTGT AAAATGGNGA TAACAGTAGT 120
ATCCAATTCA CAGAGTTATG AGGNTGAAAT ACATTCATAT TTATAAAACG TTTGGACCCA 180
GTACTTGGCA CATAGTAAGG CCATGTAAGT GTTTGTAAAA TAAAACTGNA AATAAAGCCA 240
TNTCCNAATN AAA 253

SEQ ID NO:6911

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08142

SEQUENCE DESCRIPTION:

GATCACACTG CTGCAAGACC TGACCAGTTG AGCTTCCGGC GTGGGGAAGT GCTGCGTGTC 60
ATNACCACAN TGGATGAGGA CTGGCTCCGC TGTGGGCGGG ATGGCATGGA GGGTCTNGTG 120
CCTGTGGGGT ATACCNACCT TGTCTGTAG CCCTGGNGNC CTTTCTGCG TATGTGTCTC 180
CTTCCTGTCA CCTGGGCATG GAATGGCCAG TGAACACCAT CCCAGAAGCA TTTTCCCTCT 240
GCAAAATGAC GTTTCTTCCC ACGTCTGTTT CTGCTAATAT TAAAAATAAA CTTTCTTCT 300
TCCCTCCTAT ACCANCTGTA AGGGAAAATN TGCTCTTNTT CCAAATATAT AAAAAGGTN 359

SEQ ID NO:6912

LENGTH:49

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08143

SEQUENCE DESCRIPTION:

GATCTTTTAC ATTGCAAACA AAATGCTGTA TTGCTTAAAA GGGTTGAAA

49

SEQ ID NO:6913

LENGTH:30

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08144

SEQUENCE DESCRIPTION:

GATCAGTTAA TAAACATGAG TAGCTTGAAA

30

SEQ ID NO:6914

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08145

SEQUENCE DESCRIPTION:

GATCTGAACT GTACAAAGTT CTCATAGCAC CNCTGGGAAG AGAAGGACGT AAACAGAACC 60

TGACACCAGC TCCTTTTCCT TNTATACATT ATTTAATACC TATTAAATAC AATTATTTTT 120

GGAATAAA 128

SEQ ID NO:6915

LENGTH:425

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08146

SEQUENCE DESCRIPTION:

GATCTACTTG TAACCTGTTG GCCTTCTTCC CACATCTGCC TCANACTGGG GGGGGCTCAG 60

CTCCTCGGGT GATATCTAGC CTGCTTGNA GCTCTAGCAG GGATAAGGAG AGCTGAGATT 120

GGAGGGAATT GTGTTGCTCC TGGAGGGAGC CCAGGCATCA TTAAACAAGC CAGTAGGTCA 180

CCTGGCTTCC GNNGGCCAAT TCATCTTCA GACAATCTTT AGCAGAAATG GACTCAGGGA 240

AGAGACTCAC ATGCTTTGGT TAGTATCTGT GTTCCGGTG GGTGTAATAG GGGNTTAGCC 300

CCNGAAGGGN CTGAGCTAAA CAGTGTATT ATGGGAAAGG AATGGCATTN CTNGTTTCAA 360

CNAGCGCTAN ATGCAACCAT TNCNCTNTTG TTATAGTATC TAAGGGTNNG NNAGTTAAAC 420

GGTTN 425

SEQ ID NO:6916

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08147

SEQUENCE DESCRIPTION:

GATCCACCAC CCAGCTTCAC CCCTCACCCC CAGCGGCTCA CCATGGGGAT GGCAGCAATA 60

AAATACTTCT AATGGAACAA A 81

SEQ ID NO:6917

LENGTH:254

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08148

SEQUENCE DESCRIPTION:

GATCAACAAG CTTNCCACG AATTAAGAG TTTTATCAAG ATATATCGAA TACTTCTACC 60
CATCTGTTCA TAGTTTATGG ACTGATGTTT CAAGNTTGTA TCATTCCTTT GCATATAATT 120
AAACCTGGAA CAACATGCAC TAGNTTATG TCAGNAATAT CTGTTGGNTT TCCAAAGGNT 180
GTTAACAGAT GANGTTTATG TGCAAAAAAG GGTAAGATAT AAATNCAAGG AAGNAAAANN 240
GTTGNTAGCT AAAN 254

SEQ ID NO:6918

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08149

SEQUENCE DESCRIPTION:

GATCAGAGGA ACCTTAGAGG CCTGAAATTG TTGCTTCCAG TTTAGCTGCC CCTCAAATTC 60
AAGTGAATAT TTTCCCTTCT CCCTTTACCC TTCTCCAGAA ATAAAGCAGG TGACAGGGTT 120
TTNAGAATCT TAAA 134

SEQ ID NO:6919

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08150

SEQUENCE DESCRIPTION:

GATCAAGAGT AATTACCAAC TTAATGTTTT TGCATTGGAC TTTGAGTTAA GNTTATTTTT 60
NAAATCCTGA GGACTAGCAT TAATTGACAG CTGACCCAGG TGCTACACAG AAGTGGCTTC 120
AGTGAATCTA GGAAGACAGC AGCAGACAGG ATTCCAGGAA CCAGTGTTTG NTGNGGCTAG 180
GNCTGAGGAG CAAGCGAGCA AGCAGAGNAA GAAAAGTTAA ATACCAGNTA AGCTTTTGAT 240
TTTTGTATTG TTTGCATCCC CTTGCCCTCA ATAAACN 277

SEQ ID NO:6920

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08151

SEQUENCE DESCRIPTION:

GATCTACCAC CAGAGAGTTC AACTGGNGA AAGNCCTCAT GAGTGCAATN AATGTGGAAA 60
ATCCTTTAGC CGAAGCTCCA GCCTCATTCA CCACGGGAGA CTTCACACTG GAGAAAGACC 120
CTATGCGTGC AGTAAATGTG GGCAGTCATT TAAGCAAAGC TCCAGCTTCA GTTCACATCG 180
GAAAGTCCAC ACNGGGGANN GGCCTTATGT GTGTGGGGNC TNTGGGNANT CCTTTAGCCA 240
TAGCTCCANC CTTAN 255

SEQ ID NO:6921

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08153

SEQUENCE DESCRIPTION:

GATCTGGCTT NTCCNGGAGG CTNCCATGGT TGGAAGATGG TATCAGAGGG CCTGCCTGGG 60
CAGTCTGTCT CCGGGCCAGG GTCAGGGACC CTCTGCCTCT GGCAGCCTTA ACCTGTCCTC 120
TGCTAGGACC AGGGTGATTT CAAGCCAGGG AAGCAACTGG GACCCTGAAA ACTGTCCCTC 180
CCCAGCCCGG TCCNCGTGTA TGTGCCNTGG TCCCCTTGCT GCCATGTGGA TGCTGTTGTN 240
ATTGCTGTTT GTATATTATC AAAATGTTTT TAN 273

SEQ ID NO:6922

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08154

SEQUENCE DESCRIPTION:

GATCTTCTTT ATAACATTTT ATTGTTTCGAA TCACTTTTAG GATGTAACCT TATAAATAAA 60
CATGAGCGCT GATGATTTGC AAA 83

SEQ ID NO:6923

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08155

SEQUENCE DESCRIPTION:

GATCCTCATC TCCATCCTCA TCCTCTTCCT TCACAGCATT TACTTGGAGC TCTTTGTGAC 60
ACACCATGTC AGTCATGATG AATCGGCCAA CAGCCAGCCC TTGCCAGCTG ACGTCACAGT 120
CTAAGATGGG AAAGTGTGGT ACAGATAGAC ATGAAGAGAG CTTAGCAGTG ATTGAGGTGG 180
TGACTAAATA TACAGTCATT GAATAAA 207

SEQ ID NO:6924

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08156

SEQUENCE DESCRIPTION:

GATCACTGTG GGCTGGAGAG GAGAAGGAAA GGGTCTGCGC CANNCTGTCC GTCTTCACCC 60
ATANCAAAGC ATACTAGAGC AAAAAACCAG TTGTAATATA AAATGCACTG CCCTACTGTT 120
GGTATGACTA CCGTTACCTA CTNTTGTGTCAT TGTTATTACA GCTATGGCCA CTATTATTAA 180
AGAGCTGTGT AACATCAAA 199

SEQ ID NO:6925

LENGTH:358

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08157

SEQUENCE DESCRIPTION:

GATCATGCAG CAGAAGCAGA AAAAGGCAAA CNAGAAGAAG GAGGAACCCA AGTAGCTTTG 60
TGGCTTCGTG TCCAACCCTC TTNCCCTTCG CCTGTNTGCC TGGAGCCAGT CCCACCACGC 120
TCGCNTTTC TCCTGTAGTG CTCACAGGTC CCAGCACCGA TGGCATTCCC TTNCCCTGA 180
GTCTGCAGCG GGTCCCTTTT GTNCTTCCTT CCCCTCAGGT AGCCTCTCTC CCCCTGGGCC 240
ACTCCCGGGG GTGAGGGGGT TACCCNTTCC CAGTGTTTTT AATTCCTGTG GGGCTCACCC 300
CAAAGTATTA AAAGTAGCTT TGTAATTCCA AAAAAAANGG NNNNNAGGN GGGGGGGN 358

SEQ ID NO:6926

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08158

SEQUENCE DESCRIPTION:

GATCTGTACA TTTTACTATC TGTAATATAT TCTTCAAAGA ATAAATATAA AAAAAAGCA 60
AA 62

SEQ ID NO:6927

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08159

SEQUENCE DESCRIPTION:

GATCAGATAC AGCATTAAAC GTTTCTCAGT CTCCCTNTCC TCATCTGTAA A 51

SEQ ID NO:6928

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08160

SEQUENCE DESCRIPTION:

GATCTTGCTA AAGTAAAAAT AAGGAACATT TCACCTTTTA AATATTTAAT TCTNATGTGG 60
ACTTATTTCC AGAAACTTTT GGTGATAATT CTTGAGACAA AAGGTGGTTA AGTAGCATT 120
TTATGTAATG CTTATATACC ATAGAGTTTT TAATAGANGA GAAATCCATT TCCTCCGAGG 180
GTCATATTA ACAATGTACT TCCTTAAATT TNGTTTAATG ATTGTGATGG GTGCTGCATT 240
TGCACATTGC ATTANGGAN 259

SEQ ID NO:6929

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08161

SEQUENCE DESCRIPTION:

GATCGGATGC TGAATAAAAC TCACCGTGAA GCAAGTCCCA CTGAACGAAA AGTTGGTCGT 60
AGCATTNTC AGCAGCTGCT TCCGGCTCCC TGAGACCCAG CCATGGAAGG CATAGAAAGG 120
CATGTGACAA GAAACTCATG GCTTTTAATC CTGGCAGGNC AAGGAAAACC CCGTCAAAGN 180
TTTGCATAAN TTTTGCTGCT CTCCTGCTGG GGGGGGNNNG NNNNNN 226

SEQ ID NO:6930

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08162

SEQUENCE DESCRIPTION:

GATCGTTCTT GATTTTGTTC TCATTAGTGT CATTTCTTTG TCATTGAGGA CTTTCCCCT 60
TACAACAGTA ACACCATTTT TTGAAGAGCA AAACCTATAA TACCTCCTGG GATTGTNAGC 120
TAGTCATTCA GCCTGTGTAA CCATGTGGAA ATAAAAATTG ACGACCAATG TATTATATGG 180
ACAACTTTTG CTTTGAGTAA TAAACTTGAT TGTAGGAAA 219

SEQ ID NO:6931

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08163

SEQUENCE DESCRIPTION:

GATCCACCC ATTCTTTTAC TTAAAGAAAA AACAAATAAT TGTTGCAGAG GTGTCTGTAT 60
TTTGCAGCTG CCCTTTTGTA AGANGCACTT TTCCCAAATA AAACAATTAA A 111

SEQ ID NO:6932

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08164

SEQUENCE DESCRIPTION:

GATCATTTGA AATNTCTGGG AGTCTGAGGN GTACTGACAT AATNACCTGC TGGAGTCTGT 60
AAATACACAT TTAAGACAGT GAGGATGTGA ATAAATATAT TAATGCAAA 109

SEQ ID NO:6933

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08165

SEQUENCE DESCRIPTION:

GATCAAATAG AGCCCTGTCC AGGTAGAAAA GAAATGGTAT GTAGAGCTTA GATGTCCCTA 60
TTGTGACAGA GCCATGGTGT GTTTGTNNTA ATAAANCCAA AGAAACATAA A 111

SEQ ID NO:6934

LENGTH:243

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08166

SEQUENCE DESCRIPTION:

GATCCCAGCT GTTCTAGGCA GGGCCAGGCA GAGTGGGGCG CAGGCCCTNG AAGGGCGAGA 60
CCCAGTGGCT GGGCTGCCCCA GGGCTGAGGG GCCGCCTCTT GAGGGTACAC GCCTCTGGTC 120
ACATGGCCAT GGAGCCTTGG GTACCCCTGA GTTAAGGGAG GACATTTGGC CAGCTGGTGG 180
CTGGGAGGGG AGCCTGGCTG CCCTGCTGCT TCTCCTGCCT AATAAACAGG CTTCTCCTGC 240
AAA 243

SEQ ID NO:6935

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08167

SEQUENCE DESCRIPTION:

GATCTATTTT NATAGTTTCT TTTTCAGAAG TAAAATTTTG TACATATATA CATGTACATA 60
TCTNTTTAGT TTGGGTTCAT TTCTATAACA TTTTGTAAGA AAATAAAAGT TTGAGCACCT 120
GAAA 124

SEQ ID NO:6936

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08168

SEQUENCE DESCRIPTION:

GATCAGTTGT ATGTAAATGT ACATTTTTGT NACTTTGGCT GTGCCCCGTTA GAATTTATCT 60
TCCATAAAGT ATTTCTCCCA TTGAGTCTAA TGATGTATAC TTGCCTAGG TCTTTCCAAA 120
ATTAAATTTA TGTAATGTC TATTTTATAT AAAATATGNT TAAAATAAA 169

SEQ ID NO:6937

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08169

SEQUENCE DESCRIPTION:

GATCACATTT AGGAGCAAGC AGGTGAGGGC AGAGGTGCTG GAGTGAACGT CGGCTCTTTG 60
GCTGGTAGCC TTACCCACTG AGGGAGAGGA GCTGAAACAT GAAATGGGGA TGCGTGANCA 120
ATGTCTCCCT TTTGCAGAGC TGTATTGACT TGTTCAAGAA TAACTGATAT GCCTTCACTC 180
AGAAGAAAAG AAATGAATGT GAAAGAAAGC CAAGCATCNN TTTGCACTTA AATCANTTAC 240
CACGGAAGNT ATATTTAGCT TCAACTTTAG TTTAAATTA TGTGAATTAA ATATTTTGAT 300
TTCCCTGGGN NAAA 314

SEQ ID NO:6938
 LENGTH:46
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08170
 SEQUENCE DESCRIPTION:
 GATCAAGTGA CTGTTTAATA AATNAGTTGC TTGGGTAGAA TGGAAA 46

SEQ ID NO:6939
 LENGTH:21
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08172
 SEQUENCE DESCRIPTION:
 GATCTTGCTG AAAACCAGAA A 21

SEQ ID NO:6940
 LENGTH:85
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08173
 SEQUENCE DESCRIPTION:
 GATCAACAAT CATCACCTGC CTTTGTAGA AAAGAAAAC AAAAAAGTA AATAAAATT 60
 TTAAACAGTA AAATAAAAGT TAAA 85

SEQ ID NO:6941
 LENGTH:274
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08174
 SEQUENCE DESCRIPTION:
 GATCACTACT GCAGCAGAAT GGTCTATGTN ATTTTCCTTC TTTGGTTTTT NCCTGACTTA 60
 CATTGTAAT TTAAAGAAAA TTTCTTTACG GGTGGAAGCC AATTACATG GATTAACCCT 120
 CTATGACACT GCACCTTGCC CTATTAACAA TGAACGAACA CGGCTACTTT CCAGAGATAT 180
 TTATGAAAG GATAAAATAT TTCTGTAATG ATTATGATTC TCAGGGATTG GGGNAAGGTT 240
 CACAGNAGTT GCTTATTCTN CTCTGTAATT TTAN 274

SEQ ID NO:6942
 LENGTH:246
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08175
 SEQUENCE DESCRIPTION:
 GATCTAAGTT GGGCAAAAGA GAGTCATCCT GTTACCTTAA AAAGGAGTCT AGGGTGAGCC 60
 CCAGTCTGCT GGTGGCCATC TTCACCACCT TTGGGGAGAG ATGGCCTCNG CAGACACACA 120

AAGCAAAGAG GTGGAGAGAA ACTGTGTCTT TGTGTCATTG TTTGAGTCCC TGGACCCAGC 180
CCAGTCCCC CGACTACGCT GANCTTTTCA ATTGTGGGG GCAATAAATT CCATTTAGTT 240
ANGAAA 246

SEQ ID NO:6943
LENGTH:215
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08176

SEQUENCE DESCRIPTION:

GATCCACATN ATACCGGTGC TGAAGACCTG CAAGTNATTT TGGAAAAGGG CTGGTGCGGA 60
TGGAAGGGCC CAGATTTTGT GAACAAGGAT GCATACTATA ACTTATGTCT TCCTCAGCGA 120
CCAAATATGA TTTAAATAT CTTGGAGTCA AAGACTGCAG TAGAGTGGTA TTATAAATTT 180
NTGAATAAAG AATCAGTTTA NTTTTTCACA TAAA 215

SEQ ID NO:6944
LENGTH:171
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08177

SEQUENCE DESCRIPTION:

GATCTGGACA CGAGCAGTCC CTGAGGGGCG GGGTCCCTGG CGTGAGGCC CCGTNACAGC 60
CCACCTGGG GTGGGTATTG TGGGCACTGC TGCTCTGCTA GGGAGAAGCC TGTGTGGGGC 120
ACACCTCTC AAGGGAGCGT GAACCTTATA AATAAATCAG TTCTGTTTAA A 171

SEQ ID NO:6945
LENGTH:161
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08178

SEQUENCE DESCRIPTION:

GATCGGCCCC GGAAAAAGTC TGCCCCAGAA ACTCTCACAC TTCCAGACCC TGAGAAAAAA 60
GCCACCTGA ATTTACCCGG CATGCACTCT TCAGATAAGC CATGTCGGCC CAAATCTGAG 120
TAACCTTATA TAANTATCTC ATGGGGTTTT ATATTTTCAA A 161

SEQ ID NO:6946
LENGTH:251
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08179

SEQUENCE DESCRIPTION:

GATCCTTGGG GAAGGTTTCA GTTGCACTGT ATGCTGTTGG ATTTGCCAAG TCTTTGTATA 60
ACATAATCAT GTTTCAAAG CACTTCTGGT GACACTTGTC ATCCAGTGTT AGTTTGCAGG 120
TAATTTGCTT TCTGAGATAG AATATCTGGC AGAAGTGTGA AACTGTATTG CATGCTGCGG 180
CCTGTGCAAG GAACACTTCC ACATGTGAGT TTTACACAAC AACAAATGAA AATAAATTTT 240

AATTTTATAA A

251

SEQ ID NO:6947

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08180

SEQUENCE DESCRIPTION:

GATCCCTCTT GGTGTGAGTT TTCTGACCCA ACCAGCCTCT GGTTAGCATC ATTTGTACAT 60
TTAAACCTGT AAATAGTTGT TACAAAGCAA AGAGATTATT TATTTCCATC CAAAGCTCTT 120
TTGAACACCC CCCNCACTTT ANTCCNTNGT TCAGGCCGAT GNGCTTGCTT TCCTTCANCC 180
TGTTTGTTTT CTATTTAGG NCTATTTATT ANTGGTTGGN CCAATGTACT CACAGCTGTT 240
GCGTCGAGCA GTCCTTNGTG AAANTNCTGT ATAANTN 277

SEQ ID NO:6948

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08181

SEQUENCE DESCRIPTION:

GATCCAGCTT CAGCTGCACA CCTNTGTCCC CTGGATGGG GNACTAAGGG NAAACGTCTG 60
TTGTATCACT GAAGTTTTTT GTTTTGTTTC NATACGTGTC TGCATAAAAA TGCCAAAGTT 120
TTTTTTCAAA 130

SEQ ID NO:6949

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08182

SEQUENCE DESCRIPTION:

GATCACC AAT NNTNNCTTTG AGCCAGCCAA CCAGATGGNG AAATATGACC CTCGCCATGG 60
TAAATACATG GCTTGCTGCC TGTAATACCG TGGTGACGTG N 101

SEQ ID NO:6950

LENGTH:304

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08184

SEQUENCE DESCRIPTION:

GATCATGAAG ACCTGCTTTA GCCCCAACAG AGTGATTGGA CTCTCAAGTG ACTTGCAGCA 60
AGTAGGAGGG GCATCAGCTC GCATCCAGGA TGCCCTGAGT ACAGTGTTGC AATATGCAGA 120
GGATGTACTG TCTGGAAAGG TGTCAGCTGA CAATACTGTG GGCCGCTTCC TGATGAGCCT 180
GGTTAACCAA GTACCGAAAA TAGTTCCCGA TGACTTTNAG ACCATGCTCA ACAGCAACAT 240
CAATGACCTT TTGATGGTGA CCTACCTGGC CAACCTCACA CAGTCACAGA TTGCACTCAA 300
TGAN 304

01986

SEQ ID NO:6951

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08185

SEQUENCE DESCRIPTION:

GATCCTATCT GTNCTGGCAG GACTGGCAGN CATGGTGGGC TACGCCTTGC TCAGNGGCAT 60
TGTCTCCATN CAGNGGGCAA CGCTGCTCGG GCCCCAGGCA CCCGGACCCT GGGCATGGCT 120
GAGGAGGATG AAGAGGAATN ATTTGTCCTC ACGCTCCCAA GACTGGTTTT TNTACTCTNA 180
TGCATTCCAG NGGCCCCCGT GCCTCCTCGT TGTGTTGACA GCCGGACACG GGGTGCTGCC 240
ACCCAGAATA AAGCCACTCA CACTGAAA 268

SEQ ID NO:6952

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08186

SEQUENCE DESCRIPTION:

GATCCCACCG AAGCAGCGTG TCCTCCGTGG GAGCCCGAGG TGGGTCCCAC CCGCATCTCC 60
TCTTCCACAC CCTCCTGGGA CCCAGCCCT GGAGAAGTAG CTCTGGCTTG TTTTCTTTTT 120
NATTAAAGAT AATTTATGTA TCGACTAAGA AA 152

SEQ ID NO:6953

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08188

SEQUENCE DESCRIPTION:

GATCAGTGGG TCTAAGTNTC CGAGACTTAA CGAAAATAGT ATTTAGCTG CAATAAAGAT 60
TGAGTTTGCA AA 72

SEQ ID NO:6954

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08189

SEQUENCE DESCRIPTION:

GATCAGCATC CTNCGNTGCC CCTTAGCAAC TNAGGTGGTT GATTTGAAAC TGTGAAGGTG 60
TGATTTTTTC AGGAGCTGGA AGTCTTAGAA AAGCCTNGTA AATGCCTATA TTGTGGGCTT 120
TTAACGTATT TAAGGGACCA CTTAAGACGA GATTAGATGG GCTCTTCTGG ATTTGTNCCT 180
CATTGTGCAC AGGTGTCTTG TGATTGANAA TCATGAGCGA AGTGAAATTG CNTTGANTTT 240
CAAGGGAATT TAGTATGTNA ATCGTGCCTT NGAAACANGG GGGNAAAAAN ATN 293

SEQ ID NO:6955

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08190

SEQUENCE DESCRIPTION:

GATCCTTCAA TAAAAAATCA ATGTGTGAAG GTTCCTAGGC ATAAAAGGAA GTTCAGAAGG 60
NTATGTAGGA AATACTGTTG TCTCTCTGGG GATTGGGATT ACAGGGATT TTTCTCTTT 120
NCTTTTGTGTT AAGTTTGTGT TTCCTAAAGT TTCTGCAATA AACGTACGAT GCTTGATAA 180
TAAA 184

SEQ ID NO:6956

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08191

SEQUENCE DESCRIPTION:

GATCTTGAAT TTCTACATAA CTTTCTCAGT TTATATGCCC TGTGGCAAGT GCAGCAAGCA 60
CTGTTTCCTG TTTCTAAACT TGTAAGAAAT CATCCATACA TCTTACAGTT GTCAGTTTAA 120
ACCAGATAAC AGTGGCACTT TGTTGCTGCT TTTTATCTT TAGCTTAGGT TAACAGGACC 180
CTGGAAGTAA AGTTGTTGAT TTATTCAATA GAGTATTCTC AATTAATTTG GCTAGATTTC 240
TACATGATTC AAANTCTAAA AANGTAGACA TGCATGCTTA CATGTCTAAG GCCTGAAAAA 300
TTGGNGGGGN CATCCCAAAA TAAATGN 327

SEQ ID NO:6957

LENGTH:22

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08192

SEQUENCE DESCRIPTION:

GATCTAAGTG GTGGTATGGA AA 22

SEQ ID NO:6958

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08193

SEQUENCE DESCRIPTION:

GATCTGTTGA CAATGGAGCA AGTGAAAGAC TTTGCTGCTA ATGTGTATGA AGCTTTTAGT 60
ACCCCTCAGC AACTGGAGAA ATGATTTTCC CTTCAAGAAA AACTACAGTG GGATTCATTT 120
ACTTTTAAA ATACACTGGG TAAATCACCT ATACTTAGAG TAACAGTTT TTATCAAAAT 180
GCCTGNTAAA ATATATNCTT AATAAANGTC TTCATTTTCA AAA 223

SEQ ID NO:6959

LENGTH:331

TYPE:nucleic acid

01988

TOPOLOGY:linear

CLONE:HUMGS08194

SEQUENCE DESCRIPTION:

GATCTTACTT GCGAAATGCG ATGGTTGCTG GGAATACCTG AAAGTGTGGA TTATATTGCT 60
TGACTTCTAC CTCAGAATCT NCTTTGTTTC ATGACTTAAT AGTGCTTTAA GTNNGGTATA 120
TNATTTNACC NCTAGGAATT CTNTGTTTTA CACAGAAATA AAAATTTTAA AATAGAAAAT 180
GCTTTTACTT TGTAAGGTAA GNGAGTATCC ATATGCTTAG ATGTGCTCGT TTCTAAAATN 240
CTAGNGGTTG CTATANTCAG CTCATGGAAT GCACAGCTAT TGCTTTTGT GNTAGATTGT 300
ACATAAACAT CAGCAGNTGN AAGGGNAAAT N 331

SEQ ID NO:6960

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08195

SEQUENCE DESCRIPTION:

GATCACCCAG ATGCAGTGAA GCTTTTNACC CGCCAGCTTT TGGAAGTCCA TCAGGGACAA 60
GGCCTAGATA TTTACTGGAG GGCTAATTAC ACTTGTCCTA CTGAAGAAGA ATATAAGCT 120
ATGGTGCTGC AGAAAACAGG TGGACTGTTT GGATTAGCAG TAGGTCTCAT GCAGTTGTTT 180
TCTGATTACA AAGAAGNTTT AAAACCGCAA A 211

SEQ ID NO:6961

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08196

SEQUENCE DESCRIPTION:

GATCATTGTA GATGAAGTGA AGCAAGAAGT TATCAGTACC AGCAGCAAGG CAGANCCNCC 60
CCAGTGCACC TCCCTGGCCT GGTCTGNTGA TGGCCAGACT CTGTTTGCTG GCTACACGGA 120
CAACCTGGTG CGAGTGTGGC AGGTGACCAT TGGCACACGC TCGAAGTTTN TGGCAGAGCT 180
TTNCAACTAA ANAANAANCT GGCATAAA 208

SEQ ID NO:6962

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08197

SEQUENCE DESCRIPTION:

GATCCCAGCC CCTAGGTGGG CAGAGGCAGA CCCTCCCCAG AGCTCCTTAG GAAGAAGACA 60
GACTGGTTCA TTGAATGCCG CCTTATTTAT TTCTGGTGAG GATGCATGCG TGGGGCTGCT 120
GGTGTTTAGA GTGGGGGCTA CCCTTNTAAA TCACTGCTAC TCAAA 165

SEQ ID NO:6963

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08198

SEQUENCE DESCRIPTION:

GATCACTCTN GGTCACTNC TCTTCTTTA TCTNTCTTTC TCCTTTTTTA AGAAAACGAG 60
TTAAGTTTAA CAGTTTGTCA TTACAGGCTT GTGATTCATG CTTACTGTAA AGTGGAAGTT 120
GANCTTATTT TAAAACTTCA AGCTCAGTAA TTTTGAACAC TGNAACATTC ATCTAGGNCA 180
TAATAACAAA GTTCAGTATT GACCATAACT GTTAAAAACA TTTTAAGCTT TCCTCAAGTT 240
AGTTNTGTTG TAGGNGTGTA CCTAAGCAGG TAAGCGTANA 280

SEQ ID NO:6964

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08199

SEQUENCE DESCRIPTION:

GATCCATATA TGTGTGCATG TCATGAAATA AAAGNATCAC ACANCACAAA A 51

SEQ ID NO:6965

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08200

SEQUENCE DESCRIPTION:

GATCTTGGAG CTTCCCTGTA GCCCACCTTC CCCGTGCTTC ATGTTTGTAG AGGAACCTTG 60
TGCCGGCCAG GCCCAGTTTC CTTGTGTGAT AACTAATGT ATTTGCTTTT TTTGGAAATA 120
GAGAAAATCA ATAAATTGCT AGTGTTTCTT TGAAG 155

SEQ ID NO:6966

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08201

SEQUENCE DESCRIPTION:

GATCCAGCAT TGGGGCCACT AACTCCAGC CTGGACCACG GAGCGAGACT GTCTCAA 58

SEQ ID NO:6967

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08202

SEQUENCE DESCRIPTION:

GATCAGGCTT CAGGATAGCC CAGCACTGAG GACATCTAAA ACAGTCTTCA TTTATTTATT 60
TATTGTTTAT AGTGTCCAAA AGTTGGAATT AAAGTGAATG GCTGAATCAA A 111

SEQ ID NO:6968

LENGTH:39

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08203

SEQUENCE DESCRIPTION:

GATCATGACA AAGAAGATTA AAATTCATT AGCATGAAA

39

SEQ ID NO:6969

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08204

SEQUENCE DESCRIPTION:

GATCAATTGT ACCCCATACC TCAGCATCAT GCAATATAAC CATTAAGAGA CCTGCACATG 60
TATTCCTGA ATTTAAAATA AAAGTTGAAA 90

SEQ ID NO:6970

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08205

SEQUENCE DESCRIPTION:

GATCATTGCA GTCTCTGGCT TTTTNACTCC AGGCGGGCTC CGTGCCCTCC GGGGCCTCTT 60
CTTCCTTGTN AGGCCAGTGG GAGCCACAGA GGCCTCATTG GCTTCCTATG AATATNAAAT 120
GGGATTCTCT GTGGGGGAAG CTTCCATAAG GCAGGAAGGG GTCCCCGTT GTTGGCTATN 180
AGTGTTATTT NCTTTTAAAT CATCTGTGCT CCTTCAAAGA CGACGTAAGA AGCTTGTGCC 240
CTGGCGTTGC AGAAATCTCT GGCTGTAGGG ATTAAACCTA CATGTCTTCC TGATGGGGTG 300
GTGAGGACGT AAACN 315

SEQ ID NO:6971

LENGTH:262

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08206

SEQUENCE DESCRIPTION:

GATCACCTGA GGTCAGGAGT TCACGACCAG CCTGGCCAAC ATGGTGAAAC CCTTCTCTAC 60
TGAAAATACA AAAATTAGCC AGGTGTGGTG GCGCATACCT GTAGTCCCAG CTACTTGGGA 120
GGCTGNGGCA GGNGAATCAC TTGAACTCGG GAGGCGAAGG TTGCAGTGAG CCGAGATTTC 180
ACCAAGTGAC TCCAGCCTGG GTGACAGAGC AAGACTCCAT CTCAAAAAAA ANNTAATTAN 240
AAAAAATTGC AGCTGCNGGA AA 262

SEQ ID NO:6972

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

01991

CLONE:HUMGS08207

SEQUENCE DESCRIPTION:

GATCTTGCAG GTCTAGTATT TNAATAATGC ACTATTACCC AGGGCAGNTA TTATGAGAAA 60
CTGTTTCTNC TCTAAGGGTT TATGGCAGAC TTTGCTTTTT NAACATGTGA GANATGAN 118

SEQ ID NO:6973

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08208

SEQUENCE DESCRIPTION:

GATCTGAGTA TTCCCAAGG GCACTCAGCC ACAGGGNTGA ACTAGTGTTT GTTTGTATCC 60
TTGCAGTTAT GTGACTTAAA GTGACTCAGA GATATCTATG TATGCNNGTG TACTCCGCTG 120
GCAATGAAGT AAATATATCA ATTTGTGGNA AA 152

SEQ ID NO:6974

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08209

SEQUENCE DESCRIPTION:

GATCCTCCTG CTTTGGCCTC CCAAAATGCT GGGNTTATAG GCATGAGCCG CTGCACTTGG 60
CCTGNTACTG ATTTTAATNN CTTGCGTTAT CACATAGTGT TGTATTTGAA ACATAGTTCA 120
TGGTTTTATC AAAGAACTGA AGNTGAGAAT ACTGGTCATC TAACTTTGTA ATTTGATTG 180
ATTATACTGT AAAGTTTGAC AGTCTCATTT TATCACTGCG TTTGTATCTA TNACTAAANT 240
GTATTTNTTG ACCTCTTACT GATTCATTGT TGGTNTGTNC AAACGTGTGA CTNGNTN 297

SEQ ID NO:6975

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08210

SEQUENCE DESCRIPTION:

GATCCTGTCA CCCAGGTAGT GAGTATAGCA CCCAGTGAAA CTGTAGTCTC ATNCCAGGCA 60
CTGTGCTAGC CCACTCTGGG TCATTTAATC CTCTCCTAAG AAGAGAGGAG ACACAGCGTC 120
CCCATTGAC AGATGCAGAA AGAGGTTCCTA CAGGTGTGCN TTGATTCTNT CCTAAAACCG 180
TTTCCCGGAA GCTTTTCCTG GTGTGGGCGC TTCTAACCTA ATCCTCAATC GNTTCCAGNA 240
CTATTACTCT GTTCCACAG TGNTACTGTG TCTAGGTTT ANGGGCGGCA AGTTCNATT 300
N 301

SEQ ID NO:6976

LENGTH:264

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08211

SEQUENCE DESCRIPTION:

GATCCTTCCG ACTTGGCCTC CCAAAGTGTT GGGATTACAG GCATTAGCTA CCACACCTGN 60
 CCAAGGCCCA GGTTCGACA GAAAGGGAGA GAAAACCTGC CAGAGATGCC ATTTCCGAGC 120
 CACTCTGCTT GGCAGGGACC TGTGTTCCCC TCATGCAGGT TCATCCTTAG AGGGCTGCGG 180
 TCTTATCTGG TTGTGCAAAA GTCCCACAAC CTTTCTGGAT TGATAGTTTG TGGTGAANNT 240
 AAACAATTTT AGTTTGTTTG GAAA 264

SEQ ID NO:6977

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08212

SEQUENCE DESCRIPTION:

GATCAGAACT ACAATTACAA CCAGCATGCG TATCCCCTG CCTATGGTGG GAAGTACTCA 60
 GTCAAGACCC CTGCAAAGGG GGGAGTCTCA CCTTCTTCT CGGCTTCCCG GGTGCAACCT 120
 GGCCTGATGN AGTGGGTGAA GTTTTGGTAG GCAATTTCTT GCAACCACCA CCGNGGCCCC 180
 GNAAAGCACT GGTCTGNAGG GAGCTCCTNN CCTGGCCCN CACGCCTGTG CCAGCCCTGG 240
 NCCCGNCTGC CACACCTCTG TTTCTANGG CTGGGGACNC AGATTGTNTC TCCTTNTTTC 300
 TTNCNACTGC AATGTGCN 318

SEQ ID NO:6978

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08213

SEQUENCE DESCRIPTION:

GATCATNCTG CCCCATNTCC ACGCACCCAA AACCAGCCCT CTCGCTTCTA ACACAGGGCA 60
 CCTGCTGGGG CTCAGGGATG TTAGGGACGA GTTCCAGNCC TGCCACTNCC CTNGGGCGAC 120
 CCCTCNCCTGT CCCTGCCTCC CTGCTCTGCC GCCCCTNTTN CTGGAN 166

SEQ ID NO:6979

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08214

SEQUENCE DESCRIPTION:

GATCCGATAC AGATTACATT TCTTGCCAGA GAGTGTTGCT GTTGTTTCTT TAGGTAAGTG 60
 TGTATTGGTG ATTCCATAAT AAAAGCAGTA ACAATAACTA CCAA 105

SEQ ID NO:6980

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08215

SEQUENCE DESCRIPTION:

GATCAGATAC ATGAACATGT CTTACATGGG TTGCTGTATT TAGAATTATA AACATTTTTC 60
ATTATTGGAA AGTGTAAACGN GGACCTTCTG CATACTGTG TAGAACCAAA ACCACCATGA 120
CACAGTTTTT ATAGTGTCTG TATATTTGTN ATGCAATGGT CTTGTAAAGG TTTTAAATGN 180
AAACTACCAT TAGCCAGTCT TTCTTACTGA CANTAAATTA TTAATAAANT AAA 233

SEQ ID NO:6981

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08216

SEQUENCE DESCRIPTION:

GATCTTTCCA GAGGTCCATG GTGGAAGACG ATAACCCTGT GAAATACTTT ATAAAAATNTC 60
TTAATGTTCA AA 72

SEQ ID NO:6982

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08217

SEQUENCE DESCRIPTION:

GATCACCCAT CTGTGTGCTT CCATCCTGCA TAAAATTCA CTCAGTGTGG CCCAGAAA 58

SEQ ID NO:6983

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08218

SEQUENCE DESCRIPTION:

GATCTCCAAC AGCCAGTGTG TGTTTCCCAT CTCTTGTAGG TTCCATCAAT GGTGAGCACC 60
AGCCTGAATG CAGAAGCGCT CCAGTATCTC CAAGGGTACC TTCAGGCAGC CAGTGTGACA 120
CTGCTTTAAA CTGCATTTTT CTAATGGGCT AAACCCAGAT GGTTTCCTAG GAAATCACAG 180
GCTTCTGAGC ACAGCTGCAT TAAANCAAAG GAAGTTCTCC TTTTGAACCT GTCACGGATT 240
CCATCTTGTA AAGGATATTA AATGTTGCTT TAACCTGAAA 280

SEQ ID NO:6984

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08219

SEQUENCE DESCRIPTION:

GATCCAGAGA CTCGTGCTGT CTCTTTGTCC CTTTCCTGAT GGTGTTACTT CGATTAACTA 60
CTTCAGCTTG GTGTAAAAAT TGCCAAAGCA GTTGCCCTGCC ACAACTTTGT AAAAGCCAAA 120
AAGGAGGTTG AAAATTCACA GGCTGCCCAG AAAAAGANGA AACTTGCATG GGGGTTTGAA 180
GCAAAGNNGN GATGGGAAAC CNAAGCAAC ATGGGNTACA TGTAACCTGC CAGAGTGCTT 240
CAAGACATTT GTAGCCTCAA ATGCTCAAAT TTANTGNGAA TGTTTTCCTG CCTATGTTCA 300

TATGTCAGGT N

311

SEQ ID NO:6985

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08220

SEQUENCE DESCRIPTION:

GATCTGATGG TTTTATAAAG GGGNGTTCTG CTGCATACAC TCTGTCTTGC CTGCTGNCAT 60
GCAAGATGTG ACTTAGCTCC TCCTTTACCT TCCACCATGN TTGTNAGGCC TCCCCAGCCA 120
TGTGGAAGTG TGAGTTGANT AAACCTCTTT CCTTTATAAA 160

SEQ ID NO:6986

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08221

SEQUENCE DESCRIPTION:

GATCAAAAGA TAACTGCTTA TNATAGTAAG ATAACCTTGG AACAGAACTG TGATTAAAAA 60
CCTGAATAAT AAAAAACACA CAAGACCCAT TAAACCTAT TCCTCACTTT TTAAA 115

SEQ ID NO:6987

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08222

SEQUENCE DESCRIPTION:

GATCCAGTTG GATATAGTAA CCACTGCCGA CTTNCTGGAT GTGCTAACTC ACACCAAGCC 60
CTCCGNAAG AATCTGGCTC AGAGATACTC AGACTGGCAA AGAGAATTCG AGTCTGTCTG 120
AAACCACATT TACCCTGACC TGGCCACAAA GGCAACCACA AAGACCTCCT AGTTTATTAN 180
NGNNGCTGGG AGAACAAAAT GATTGGAATG GAAAAGAGAA AATTATTTTT GANGACTGGA 240
TTAACTTGAG CCACTGTATT GTTTTGNTA GCTGAGATAT ATTTNTTAAC TTTACCATTA 300
TCGATGTCAG CAAAATATTG AGAGTTTCTT N 331

SEQ ID NO:6988

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08223

SEQUENCE DESCRIPTION:

GATCTACTCC CAGTTTTTAA CTTTTNACAG AATATTGTTG CTTTCCTACA ACAATGTACA 60
TATATTTNCA GTTGATATG CTTTTTTTTT TNCCAAATAA AGTTTGAGTT CTAAACTCAA 120
A 121

SEQ ID NO:6989

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08224

SEQUENCE DESCRIPTION:

GATCCTTCCC TGGCTCTCAC CTGCTCCTTT AGGCTGTAAT TGCTTCCTAC ACACGAAGCC 60
TCTGATTGGA GCCTCTGGTN CATCTCAGAA AAACCTTCCA AGAGCGCTGG GGTTCATGCT 120
TTCTGAATAA ACACTACTGT TTACATGGAA A 151

SEQ ID NO:6990

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08225

SEQUENCE DESCRIPTION:

GATCTCCATA ATTTTAAGAT ACTCTATGTT AAACCTATTTT TNAAGTNCCTC TTTTACATC 60
ACGTCTGAAA TGCACGAGNG TGGCGGTTTC TGTTTCACTG GTTNNTTGT TCATTTTNN 119

SEQ ID NO:6991

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08226

SEQUENCE DESCRIPTION:

GATCCCGGGC CGTTATCCAT CTGGAGGCTG CAGGGTCCTT GGGGTAACAG GGACCACAGA 60
CCCCTCACCA CTCACAGATT CCTCACACTG GGGAAATAAA GCCATTTTCAG AGGAAA 116

SEQ ID NO:6992

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08227

SEQUENCE DESCRIPTION:

GATCCGCTGG GACAGAGTGC CCACCGTCGT GTCTTTNATA TCTCTGTAAT AACCCACAGT 60
TAAAAAGGGC AGGAAAAGGC ATCAGGGTAC CATGTTATCA GGCAAGTTCT TACATTCTAA 120
GAAAATTCCT AGCTTTGTTG GGTGAGGCAA GTTTTTAAAN GAANAATGTC ACTTCCCCAT 180
TTGATAANGA TTTCGTTATC ANTAAA 207

SEQ ID NO:6993

LENGTH:325

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08228

SEQUENCE DESCRIPTION:

GATCCTGATT GTAAGGTTTT CCACCTATTT CCCTGGATAT TTNNTGGTC AGTACTGGCT 60

CTGGTGGGTG TTCCTTGTTT TAGGCTTTCT CCTGTTTCTN AGAGGATTTA TCAATTATGC 120
AAAAGTTCGG AAGATGCCAG AAACCTTCTC AAATCTCCCC AGGACCAGAG TTCTCTTTAT 180
TTATTAAAGA TGTCTTCTGG CAAAGGCCTT CCTGCATTTA TGAATTNTGG TCTCAAGCAG 240
CAAGNGAACA CCTGCAGGAN GTGAATCAAG CTGCAGAACA CAGAGGNNTA CTCACCTGCT 300
TTAAAAAAT ANAGTACTGT TGATN 325

SEQ ID NO:6994

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08229

SEQUENCE DESCRIPTION:

GATCCCTCGG GNNTTAANTA CANGAAACCT AGAACTGACC AAAAGGCATT ATAACTCTGA 60
CTCAAATACA AGGTACAGAA GATAAGCATC TTTGAGGAAA CTCCTACTTC AGTTCTTTTG 120
TTATNATGNN 130

SEQ ID NO:6995

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08230

SEQUENCE DESCRIPTION:

GATCATATAA CATTCCAGGT ACTCAGGATG AATGGTTTGA GGACTGGTCT GAATTCTTCA 60
AAGGTTTCAG CTGTATTAAC ATTCTCCATC TAATAAACTT TATCTTGTCA TTGAAA 116

SEQ ID NO:6996

LENGTH:33

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08232

SEQUENCE DESCRIPTION:

GATCAGCAAA TAAATGAAAT TTATTAAGA AAA 33

SEQ ID NO:6997

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08233

SEQUENCE DESCRIPTION:

GATCTTTAGG CAGTTTTTAC TTGGCCAGAA AGCAGTGCTG AATACTTGNA ACTGTGTGCT 60
CTGTTCTACT TAATGTTCTG TCAGAAATGTT CTTTTGTAGG CAGTATGTCA TGNTGTAATC 120
ATCTATCTCC TNGTCTGTTT CCAAGTTNNN CTGTGAAGTC TGCGACCCCTT TTGNGGTGGT 180
CATCANAGTC ACAGATTCCT TGTTTAACCA NGTGTCCNA AGCATGTACC TGNAGTTATA 240
TCATNN 246

SEQ ID NO:6998

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08234

SEQUENCE DESCRIPTION:

GATCATTATG CAATAAAGCT GCTAAAGTCA CATTTGTGGT TGATACTCAA GCCTTGTACA 60
AGCACATATC ATGTAGACAT TTTTAAATGT GAAGCTTTAA CAGGNATAGG ATAGCTGTTT 120
CAAACCTTGT GCAATTGTAA ATAANTTGT TAGCTGTGTT TCTTTCATTT TTAATANAAA 180
NTTAAA 186

SEQ ID NO:6999

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08235

SEQUENCE DESCRIPTION:

GATCTTCATA TTAATCTTAA AATTTTGTGA CGTGTCTTTT TCCTTTTTTT CCACAGTTTT 60
AATATATNAT TCTTCAACGA CATTTTTTGT AACTTTACAC TTTTTTGGTT ATNTTATTTT 120
AAAAAAATGA AAAATTAATT TAAAAAATG CAAA 154

SEQ ID NO:7000

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08236

SEQUENCE DESCRIPTION:

GATCTGGTAC GNGGNGGACG NCATGGCCCG AGATGCCAC GGGAACACAG CGCTGACCTA 60
CGCCCGNCAG GCCTCCAGCC AGGAGTGCAT CAACGTGCTT CTGCAGTACG GCTGCCCCGA 120
CGAGTGCGTG TAGTATCTGT TTTATTTNNC TGNAGTCTCC TTGGTGTAAG AACAAAATNG 180
GNAATAAG GATAN 195

SEQ ID NO:7001

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08237

SEQUENCE DESCRIPTION:

GATCAGGCCC TAAACGTTG TTGTGATGAG GTTCTTTAG CAAGTTCTTG TTAAATTAT 60
CATTTATTTG ATGAGTGAAG TTTTAAACAT GCTTTGCTGT GTGAAATTTA AAAAAGGGAT 120
GTTTTTCAG GCTGGAACAA TAAATGTGGC TGTGCAGTTT AAA 163

SEQ ID NO:7002

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08238

SEQUENCE DESCRIPTION:

GATCTTTGTG AAAGTAGTAC AGTATATNAC CTTTAATTNC TTTTATTATTT TAAATATACT 60
GTNACCNTGA AGCACTGGTT GGGCATTTTA ATTCATGTTA ATAAATCACA ATTATGTCAG 120
TTTTAAA 127

SEQ ID NO:7003

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08239

SEQUENCE DESCRIPTION:

GATCAGCCTC CTGTCTTATG TGGGCACGTT CCAAAGTTTA AATGCATTTT TTTGACTCTT 60
GGCCAAAATT TAGAAGATGC TGTGAATATC ATTTTGAAGT TGTGTAAATA CATGAAAGAG 120
AAA 123

SEQ ID NO:7004

LENGTH:260

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08240

SEQUENCE DESCRIPTION:

GATCTCAGCA TTACCTCTTT GGNAAGGAA GGTAGTTCAA GAAATGAAGA GCTGTTGATG 60
GGATGATTGA AGAAACAGCT ATGAGAGGAT TGGCTCCCAT CTTTGTNAC TCTTGGGNCA 120
TCCTGTCATC TGAGAATGAA CAAAGACCAA TTTTTGTGT GTGAAGCTTA AGGGTCATAT 180
GTTTGCTTGT NTTTNTNAAT GCTAATCCTT GTGAAANTAA ATTGNCCAGG CGGAAGGAAA 240
NCTCTATTTT AGGATNCAAA 260

SEQ ID NO:7005

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08241

SEQUENCE DESCRIPTION:

GATCTGTATT TNTATATACA CGTGTCCGNA CAAGTATAAC TAAATAAAAA TTAAAGNTTT 60
TAATCATTTT AATTGGAAA 79

SEQ ID NO:7006

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08242

SEQUENCE DESCRIPTION:

GATCATATTT CTGCCAAGNA TGTGCCTTCA ACTTTATAAT TATAGTGTTG TAAATAAAA 59

SEQ ID NO:7007
LENGTH:67
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08243
SEQUENCE DESCRIPTION:
GATCTCACTT TTNCTTATTA GAATTTGTAC CTTTGTTTGA TTAAGGAAAT AAAAGATGAA 60
TGACAAA 67

SEQ ID NO:7008
LENGTH:76
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08244
SEQUENCE DESCRIPTION:
GATCAGTCTC TCAGTGCCTN CCTACTGGGC AGCTCATCTG TCCACTTATT CGTATTAAAT 60
TTNCTTTTTA TTAA 76

SEQ ID NO:7009
LENGTH:162
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08245
SEQUENCE DESCRIPTION:
GATCCACATC CCANATGCTG AACCAGAGAG CCCCTCATCC CTCCTCCCAG TACTTAGGCA 60
GCGCCTTCTG TGTGCACTGC CTCTTGCCGG GCACTGGGTA GGTGCACACG NGGACCGGGA 120
CAGGGCCAGA NACTTTGGTN CCCGNGGTTT GTNTGNGGGG NN 162

SEQ ID NO:7010
LENGTH:58
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08246
SEQUENCE DESCRIPTION:
GATCGATTAA GTCTAGGAGT TTNAGACTTG CCTGGGCTTA GCAAGACCCT GTGGCAA 58

SEQ ID NO:7011
LENGTH:275
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08247
SEQUENCE DESCRIPTION:
GATCCTTGAG TCTCCNCTCT GGATGGAATC CGCGAGCTGG CCACCTGGCC ACCCTCTACA 60
CGACTCCACC CNNCCATGGC CGTGGGGCCC TTA CTCTCTG ACTTCTCAGG ACACAGGTCA 120

TGGAGGTTCT TCCCAAGCTG GCAGAGGCCA TTTGTGGAAA GTGGAGAGCT ACGTGGTGGN 180
CATCTGCCAA CTCCAGCATC TCTGGNGGGG NTCCACGNTG AATGTNATTT TTGAAAACAG 240
CTTATGTANT TAAAGGTTGA ATGGCACATC ATAAA 275

SEQ ID NO:7012

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08248

SEQUENCE DESCRIPTION:

GATCAAGACC ACCCTGGCTA ACACGGTGAA ACCCTGTCTC TACTAAAAAT AAAAAANTT 60
AGCCGGGCAT GGTGGCACAC GCCTGTACAT CCCAGCTACT CANGGNGGCT NGTGGCATGG 120
NGNN 124

SEQ ID NO:7013

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08249

SEQUENCE DESCRIPTION:

GATCANGAGC CCTTTNCTC CAGTAGTACA GGCTTTGAAA ACTACTTCTA TTAAGTTATT 60
GATGCAATTT GATATTTTTT CATAATCTAT ATTTAAACAA AATTACATCA TTGCATCATC 120
TTTTCTAAAT TCATCTCCAT TAAAACTTGC CTTAAGCTAC CAGNTTGCTT TTGCCANNNG 180
NGGCCATACT GTGTGTTTGT TTGTTTAATN NNCTN 215

SEQ ID NO:7014

LENGTH:373

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08250

SEQUENCE DESCRIPTION:

GATCTCTCAG GGATAGAAGA TATTTCTCAT GAAGGCAGCC TAACTCTGAG GAAAACAATG 60
CCAATTCAAG TACAGATTTT AACACATCTT CAACACTATG TGAAGGGTTC ACATCTTAAC 120
CTGTGCAATT CAGATTGATA CTCAGAATAT GGGTTGATTT GAATATCTGA AATATCAATG 180
GAAAATCCCA CTNNGTTTTT GATGAACAGT TTGAACAGTT TTCTGTAATC AAGCAGCTTG 240
CATAGAAATT GTATGATGAA ATTTTNCNN GGTCTTGGT GCTGTTTTGT TCTTTTTTTG 300
TTTTTTGTTG TTTTGTTATT TACTTATATA CATATAANCT TTNNTTGAAA ATATGTTTTG 360
GTTACTAANA GTN 373

SEQ ID NO:7015

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08251

SEQUENCE DESCRIPTION:

02001

GATCCCAACC TGGACCCACT CATGAACCCT CACATCCGCG TGGGCCCTC CTNAGCCCN 60
TTGCTTGTGG CTAGGCCAGC CTAGGATGTG GNTTCTGTGG AGGAGAGGCG GGGTAATGGG 120
GAGGCTGAGG GCACCTNTNC ACTGCCCCTC TNCNTCAAGC CTAAGNCACT AAGACCCAG 180
ACCNAAGCC AAGTCCACCA GAGTGGCTGC AGGNCAGGN 219

SEQ ID NO:7016

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08252

SEQUENCE DESCRIPTION:

GATCGCTTGA ACCCATAAGC TGGAGACCAG CCTGTGCACA TGGTGAGACC CTGTCCCTAC 60
CAAAAAAAT AAAGTCATTA GAGTTTTTAA A 91

SEQ ID NO:7017

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08253

SEQUENCE DESCRIPTION:

GATCTGATGG TTTTATAAGG GGCTTCCCCC TTTACTCAGC TCTCATTNTT CTCTCTCCTG 60
CCACCATGTA AAGAAGGATG TGTTTGTTT CCCTTCCATC ACGATTGTAA GTTTCCTGAG 120
GCCTCCTAAG CCATGTGGAA CTGTGAGTCA NTTAAATCTC TTTACTNTAT NNNGNN 176

SEQ ID NO:7018

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08254

SEQUENCE DESCRIPTION:

GATCATCACT TACCCACCCC CCAAGTTCAA GACCAAATCT TCCAGCTGCC CNNTTCGTGT 60
TTCCCTGTGT TTGCTGTAGC TGGGCATGTC TCCAGGAACC AAGAAGCCCT CAGCCTGGTG 120
TAGTCTCCCT GACCCTNTN AATTCCTTAA GTCTAAAGAT GATGAAGTTC TAAA 174

SEQ ID NO:7019

LENGTH:45

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08255

SEQUENCE DESCRIPTION:

GATCCTCCCT TTCCTATAGN GNTAAAAGTG ATTTATCTTG GCAAA 45

SEQ ID NO:7020

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08256

SEQUENCE DESCRIPTION:

GATCATGTGA TGTGGAGTA GGAGGGTTTA TNTGGTGAC TTTGGGATGC TGGTTTCATT 60
GTAGGTATAA TNATGNNGNG CAAAGAATCC AGGNAAGAAT TGCCAGAGN 109

SEQ ID NO:7021

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08257

SEQUENCE DESCRIPTION:

GATCCCACTG AGGCCAGAGA ATAGGGTCTG GAGACAAAGG AGCATTCACT TCAGCCTCTG 60
ACTGGTGGCA GGCCAAGTNT TTATTTACAT AGGGTGTAAC CAAATAGGAA ACCTCTAAAG 120
GGTACTTAAA CCCAGATTT TNTACACAGG GCACCTTGCTT GAGCCTCATC CCGCTTTCTG 180
GAATGTACTT TTGCTTCAAT AAATCTGTGC TTTTGTTCCT TCAAA 225

SEQ ID NO:7022

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08258

SEQUENCE DESCRIPTION:

GATCTGGAGG GCGTGGCTAC AGGACCCGGG ATGCCATTCA GTTACTCATC TTTNATGCTT 60
TCGTCCTGAC CTGTCTCAAC TAGACTTGCT CCTGCAACCA CCATGGGGGT TTTGCATTTA 120
CATTTGTGGA CCATGTTACA GTTAAGAAAA ATCCTGTTTC AGTCCTTATA TGTAATAAAA 180
TGTTTTATGA TGTAATA 196

SEQ ID NO:7023

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08259

SEQUENCE DESCRIPTION:

GATCTNTCCT CCGCTTGAGA AGACCATGGA ACTGGATAGC TCACTTCCGG AATACAACAT 60
GTTTCCCCGC AAAGGCCGGG GNCTCCCTAG NTCAAATTTC CAATCTCATN AGCAGGTGNT 120
AGAAAGGTNT TGTGGTAGCA ACTNCATGAT TTCTCTGTGA CCAAAATNAN 170

SEQ ID NO:7024

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08260

SEQUENCE DESCRIPTION:

GATCAAATGT AAATNTTTTG AGGATATTTT NCTTGTTTTT NAAAATCAAT TTTTAACCAA 60

02003

ATATTAAACC CTTTATTTGC CAAA

84

SEQ ID NO:7025

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08261

SEQUENCE DESCRIPTION:

GATCCACCAC TGGNCTCTCC CTCCCCCAGC CTGGAGCACG GGAGGGGAGG TGACGGCTGG 60
TGACTGATGG ATGGGTAGTG GGCTGAGAAG AGGGGACTAG GAAGGGCTAT TCCAGGCTCA 120
GCCCTGCTAC TGCAGCTTTG CCGCTGAGTG TAGGAAAAAC AGGCATGACA GACCAGGGTG 180
AGGGTTGTGC CCAGCTGGGC CACGGCCATG CGTGGGGTGG CCCAATAAAC ACCGTGGACT 240
CCCAAA 246

SEQ ID NO:7026

LENGTH:45

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08262

SEQUENCE DESCRIPTION:

GATCAGTCTT TATNAATAAA ACCTGTTCTC TTAAATCAGC TTAAA 45

SEQ ID NO:7027

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08263

SEQUENCE DESCRIPTION:

GATCAGACTG NTAACCTTAA CACCATAGGT GCAAAANGAG TTGTTCTNAG GTTTTTTTGA 60
AACATTAAAG TTCCAAAACA TGACATTTTT AAGAATAAAT TTGAAATAGN GTATGATTGA 120
ATGCAGAGNA TTATGTACCT CTAATTGCTT AATTTTGTAG NGGTCTTNA TTGTAGAATT 180
GGNNCN 186

SEQ ID NO:7028

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08264

SEQUENCE DESCRIPTION:

GATCTCTTGG TAACAATTGA CATTGCACTA GNATTTGAAT GNTACTGTTG TTGGCATTTC 60
TGTTANTCTT TCAAGTAGTT GTAAATAATC TCTTTTCTC ATATAAACGG AATGCATAAT 120
GTCTTACTCT TGAGTCATTT AGTAGCATTG ATATGGTACC AAGTTGTATA GCAGTGTAAC 180
AAAATCATGC TTTGACAATG NAATTTACAT ATTGCCTCAC CTAGAGATGT TTTGTCTGTA 240
TGACTNNTNN CNTNTAAAG TTNGNCNAAC N 271

02004

SEQ ID NO:7029

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08265

SEQUENCE DESCRIPTION:

GATCAAATCA GGGTAATTGG GTATCCATCA CCTCAAACAT TTACCATTTC TTTGTGTTGG 60
GAACATTCCA TATCTTTTTT TCTAGCTGTT CTGAAATTTG CTATACGTTC TTTTAACTAA 120
AGGTCCCTTG CTGTGTTATG GAACACTGGA ATTTGTTCTT TCTGTTTAAC TGTATTTTGG 180
TACCTATTAA CCAACTTCTC TTTATCCTCC CCCGTCCTCT ACCCTTCCCC AGCCTGTGGG 240
AATCACCCAT NCTACTCTCT GCCTTTATGA GATTTACTTN TTNATCTCC CNATATAANA 300
N 301

SEQ ID NO:7030

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08266

SEQUENCE DESCRIPTION:

GATCGTAGAA ACACAGAATG GGACTGGGGA AGCCCTTTGG AAATCCAGCT GCAGAAACAG 60
ACACCCCAAT GCTATTTACA TACAGCTCTA TATATATAAA AAAAGNAAAT ATGNAAA 117

SEQ ID NO:7031

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08267

SEQUENCE DESCRIPTION:

GATCTACCA GGGCCCAGTC ATATATGCAC AGTTAGACCA CTCCGGCGGA CATCACAGTG 60
ACAAGATTAA CAAGTCAGAG TCTGTGGTGT ATGCGGATAT CCGAAAGANT TAAGNGAATA 120
CCTAGAACAT ATCCTCAGCA AGAAACAAAA CCAAACTGGA CTCTCGTGCA GAAAATGTAG 180
CCNNTACCA CATGTAGCCT TGGNGACCCA GGCAAGGACA AGTACACGTG TACTCACAGA 240
GGGAGNGNAA GNTGTGTACA AAGGNTATGT ATAANTNTTC TTTTAGTCA TCCTATN 297

SEQ ID NO:7032

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08268

SEQUENCE DESCRIPTION:

GATCCTGGGG ACTCATATTC TTTCAGAATC ATGTAAATAA ATGGCATCAT GTTGTAATA 58

SEQ ID NO:7033

LENGTH:103

TYPE:nucleic acid

02005

TOPOLOGY:linear
CLONE:HUMGS08269
SEQUENCE DESCRIPTION:
GATCTATTTG GCCTCTCAAA TNAACTNAGA TTCCTGTAA AAAAGATTGA TGTTATTGTC 60
TCTTGTAGAG GAAACTAATA AAGTGTGTGT ACCTNTGTGN AAA 103

SEQ ID NO:7034
LENGTH:265
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08270
SEQUENCE DESCRIPTION:
GATCAAGAGT NATGGGCCTT GGAGCCCTTG CCAGCCCAGC CCACCTGTNA GGAGGCTGCC 60
CATCCCTCT TTNAGGCCAC CCTGTGTCCT CTCCCCTGCC TCTGCCAGA GCTCCAGCCG 120
GAGTGTCTTG CTGCTCAGAC CCCTCCGAGG TCCAAGTCCT GTCCTGCCAC TCAGTCCCN 180
CTGCACCCCA GAAGAAACGC AGGGTGC GGT TGCATTTGAT TTCAGATAAA CAACAACCTC 240
TTAGTAAAT NACCTNCCCA CTAAA 265

SEQ ID NO:7035
LENGTH:46
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08271
SEQUENCE DESCRIPTION:
GATCAATCTT GANGTGAAAT ATTTCAAAA TAAAATTCTA CAGAAA 46

SEQ ID NO:7036
LENGTH:254
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08272
SEQUENCE DESCRIPTION:
GATCTTTGCA TAGAATGTCA AGCTAACCAG GCGTCCGNTA CTTCAGAAGA GTGTACTGTC 60
GCATGGGGAG TCTGTAACCA TGCTTTTAC TTCCACTGCA TCTCTCGCTG GCTCAAAACA 120
CGACAGGTGT GTCCATTGGA CAGCAGAGAG TGGGAATTCC AAAAGTATGG GCACTAGGAA 180
AAGNCTTCTT CCATCAGGNG TTAATTGTTT TGTTATTCAT TTAATGGCTT TCCCTGCTGT 240
TACCTAATTA CATN 254

SEQ ID NO:7037
LENGTH:222
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08273
SEQUENCE DESCRIPTION:
GATCATTGAG AAAGTGTGTTG AAACCTTCTC ATGAAGTGTA TATATAATGG CGTGAAAAAT 60

TCCTTTGGAA AAATNTATGT NCCTTTCATT TTGCCCAAAT TGCAAATTTT CAGCATGGNT 120
GTGAAAAGCA TTAAATATAT AACTTTGTGT ACANGATGAA AATAATTCAC TAAATTGCC 180
CTTTTTTACA CAAAATAAAA TGTTAANGTT ANNGCTGGNA AA 222

SEQ ID NO:7038

LENGTH:32

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08274

SEQUENCE DESCRIPTION:

GATCAATGA CANTAAATCA TTCAAAATCA AA

32

SEQ ID NO:7039

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08275

SEQUENCE DESCRIPTION:

GATCACCCAG GTACANCATG CTCTATATCC ATGCGGCCCT AGAAACCCAA GGAACATATA 60
CAACCACTCT TGTGTCCCTC CTTATAACCN CAGNTTTATN CNAGAAGTN 109

SEQ ID NO:7040

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08276

SEQUENCE DESCRIPTION:

GATCACAAAT TGGTGCATTC TTAAGTGTGG ATAATTATGT ATGAAGCCAA ATTGTAATAA 60
AACTGTTATT TGCCAAACAT AGAANCCTTG CTTCTGACT AGGCTGAGCC CAGAGTGTTA 120
TTCTCTTCTT CTGCCTGTNA TGTATCTGGG CAATTTGTAG GGCCTTTGCA GGTGAATCCA 180
GTAGAGAACC ATGCTAAGAN TGNGCAGCAG TCATGCATGC CTGTATCATT GAAAGCCTTC 240
CTNGCCATTT TNACAGCTTC ACCTTNCGTG GTTTTTATT TTTCCAGAGG GGCCTGGGG 300
N 301

SEQ ID NO:7041

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08277

SEQUENCE DESCRIPTION:

GATCCTCCTC CCTAAGCGCT TATCTTGGTG CTTCCAGCTC AGTCTGGCCA ATTCCACCTC 60
TATGAGATAA GGAGGGTTCA GAGAACCCAG TCACTTTGCT GTTTTCTGC NCACAGAGTT 120
TCTCTAATAA ATCTTATTCT ATGTCTACAA A 151

SEQ ID NO:7042

02007

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08278

SEQUENCE DESCRIPTION:

GATCACATTG TTTGACCCAG TATGTCTTGT AGACACGTTA GTTATAATCA CCTTGTATCT 60
CTAAATATGG TGTGATATGA ACCAGTCCAT TCACATTGGA AAAACTGATG GTTTTAAATA 120
ANCTAATTCA CTAATAAA 138

SEQ ID NO:7043

LENGTH:300

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08279

SEQUENCE DESCRIPTION:

GATCTGTCAA CAGGTTAAGT CAATCTGGGG CTTCCACTGC CTGCATTCCA GTCCCCAGAG 60
CTTGGTGGTC CCGAAACGGG AAGTNCATAT TGGGGCATGG TGGCCTCCGT GAGCAAATNG 120
TGTCTTGGGC AATCTNAGGC CAGGNCAGAT GTTGCCCCAC CCACTGGAGA TGGTGCTGAG 180
GGAGGTGGGT GGGGCCTTCT GGAAGGTGA GTGGAGAGGG GCACCTGCCC CCCGCCCTCC 240
CCATCCCCTA CTCCCACTGN TCAGCGCGGG NCATTANAAG GGTGCCANAN ATTTTTTTNN 300

SEQ ID NO:7044

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08280

SEQUENCE DESCRIPTION:

GATCTCATTC CATGGGAAAA AAAAAATCC TGTCTTGTTT ATAAATTGAC AATGTCACTA 60
AATAGAAATA AAGTGCACAN TAAATGNAAA 90

SEQ ID NO:7045

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08281

SEQUENCE DESCRIPTION:

GATCTNAGTT AGACATCACC ANTGGAAATC GATTGGAATA GAAACTTAAA GGAAATGGAA 60
CCCTGACTAT TCTCCCATCA AATCATATAT GTTGACCTGT CTGAATTATA AACCAGCCTG 120
ACCTTTCCTT TAGCATTAGA TGTAATAAAA TAACCTTGA AATTTGTNAT TAAA 175

SEQ ID NO:7046

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08282

02008

SEQUENCE DESCRIPTION:

GATCCTCAGG ACTGACCAGT TAGCTGGCAG GTTGTNCAGC TTTTAATTCC AGTCATAATA 60
GGTGACAGTG TTAACCGTGA AANTTTGNGA GGCACNTTG NCCTCTTCCC TATAAAAATC 120
ACACAAGCGT GNTTTTACAA AGGGTCCCCG TGGAACCTT NGCTTAAGGA CCCTTTGNCC 180
CNTCAGTTAN 190

SEQ ID NO:7047

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08283

SEQUENCE DESCRIPTION:

GATCCTCAGG ACTGACCANT TAAGCTGGCA GGTGTCCCA GCTTTTAAAT CCCAGTCATA 60
ATAAGGTGAC CAGTTTAAAC CCGTGNAAC TTNGAGGGGA CTTTGCCTT TTCCCTATNA 120
AATNACACNG GGGGGTTTAA NAAGGTN 147

SEQ ID NO:7048

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08284

SEQUENCE DESCRIPTION:

GATCCATCTG CCCTCATAAA AGTGTTTCAAG TACAGCAGCT GAGGCTGCCC TGAGNAATCA 60
AGGGGCCATT ACCAAGGGGC AGGAAAAGNA TATGTAAGAG GTGGCCTTCA TGGTAGAGCT 120
TGACCCAAGA ACTACTCCAN ATTCGGATGG CCCAGACTGG GNGCATCCCC TGACTTTCCC 180
TTTGACTTCA CCCTGTTTGT AAATAAANCA AGGNAGATGC AAA 223

SEQ ID NO:7049

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08285

SEQUENCE DESCRIPTION:

GATCTCCTCC CTNGTTTAAA TGTCAATAAA TGCCCCAACT GCTTTGTAAG TGCAAA 56

SEQ ID NO:7050

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08286

SEQUENCE DESCRIPTION:

GATCACCTTA AAATTATTN ACGNACTGNA GNCAATNAAG TCCGTTATGT TTAGAGTAGA 60
AAATGTTTAG GTTAAAGAGC ATCTGTCAAC AGAATCTACA AAAAAGN 107

SEQ ID NO:7051

02009

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08287

SEQUENCE DESCRIPTION:

GATCCAATTN CATNNGCGGC TGCATCTNCT GTCATGCCG CCCAAACACC ACCCAGATGT 60
CACTTACGTC AAGAAGGTCC GGACCCTCCG TATGCACCTG TTCACGGCCC TGCAGCTGCT 120
NTGNN 125

SEQ ID NO:7052

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08288

SEQUENCE DESCRIPTION:

GATCCAAGAA ACGNANGACA CAACAACAAC GATGCCGTGT GTCTGCTCTA CCTGGGCAAG 60
CTCAAGNACT CCCTGCGGCA GCTNGAGGCC ATGGTCCAGC AGGACCCCAG GCACTACCTG 120
CACGAGAGCG TGCTCTTCAA CCTGACCACC ATGTACGAGC TGGAGTCCTC ACGGNGCATG 180
CAGAAGAAAC AGGCCCTGCT GGNGGCTGTC GNCGGCAAGG NGGGGGCCAG CTTTAACACA 240
CAGTGCCTCA AGCTGGCCTA GCTGNNTNNN ACACAN 276

SEQ ID NO:7053

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08289

SEQUENCE DESCRIPTION:

GATCGAGTTT ACAGTTGTGN NNTCTTGAAG GTATTACTTA ACTTCACTAC AGCTTGTCTA 60
GAAGACCTTT CTAGNGTGA TCTGGTTCTA GAAGGGTCTA TACTTGCCT TGTCTTTAAG 120
CTATTTGACA ACTCTACGNG TTGTAGNAAA CTGCTAATAA TACAAATNCT TGTTGTCCAT 180
GGNAAGGCAA ATAAATTNC TACAGTGNN 209

SEQ ID NO:7054

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08290

SEQUENCE DESCRIPTION:

GATCTCATTT TCAGTTTAAG TAACTGCTGT TACTTAAGTG ATTACACTTT TGCTCAAATT 60
GAAGCTTAAT GGAATTATNG CCCTCAGGAT AGTATTTTGT AAATAAAGNT GATTAAATA 120
TGNAAA 126

SEQ ID NO:7055

LENGTH:276

TYPE:nucleic acid

02010

TOPOLOGY:linear

CLONE:HUMGS08291

SEQUENCE DESCRIPTION:

GATCGCACCA TTGCACTCCC ACCTGGGCAA CAAAGAGTGA AACTTGGTCT CAGAAACGAA 60
ACAAAACACA AAAACCTTTC TNAGTCCAG CATATGTGGA GCAGCCTCAT TCTTCATAGC 120
TGTGTGTCAT TCCGTTGCGT GATGGGGTCA CAGAGCACAG ACCTGGTGCC CTTTTCCTTT 180
TTAATATGTG GAAACCCCTC CATGCTTTCC AAAGCCTACA AGTACAGCAG CCCCNAGTTT 240
AGGGTGNGCA GCAGTGGTCA GAGCTCTTN CTANTN 276

SEQ ID NO:7056

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08292

SEQUENCE DESCRIPTION:

GATCTCCAGG AGTCCCCTGC ACATACCTTC TCCATCGTGT CAGCTGTGTT TCTCTTGATT 60
CCGTGACACC CGGTTTATTA GTTCAAAAGT GTGACACCTT TTCTGGGCAA GGAACAGCCC 120
CTTTAAGGAG CAAATCACTT CTGNNNNAGT TATTATGGTA ATATGAGGCA ATCTGATTAG 180
CTTCACAGAC TGAGTCTCCA CAACACCAAA ATATCCAGAT GTAAACCCCA AACTTGTACA 240
CAAANGNAAG CACAGATTGT TTACCTGTTG TGGAGN 276

SEQ ID NO:7057

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08293

SEQUENCE DESCRIPTION:

GATCCCTGTT ACCCAGAGAA TANNTACATT CTTTATCTTG ACATTCAAGG CATTTCTATC 60
ACATATTTGA TAGTTGGTGT TCAAAAAAAC ACTAGTTTGT TGCCAGCCGT GATGCTCAGG 120
CTTGAAATGC ATTATTNNGA ATGTGAAGTA AATACTGTAC CTTTAAA 167

SEQ ID NO:7058

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08294

SEQUENCE DESCRIPTION:

GATCACATAC CCTTCTTTTA AGTGAATTTT TTTCATTTGA TTTGTCAATA AACGAATCAA 60
ACTGGNAAA 69

SEQ ID NO:7059

LENGTH:222

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08295

02011

SEQUENCE DESCRIPTION:

GATCTCCCTG CCTGGGCTGG CTGTGAGGCC ACCTTTGTCC CAGGCCCAGC CTCAAGGCAA 60
 GGAGGGCGCT TCACTGAGGT GTGAATTGTA CGTACAGGCT TTTTATATAC CAAAAGTATT 120
 TTTTGACTAG ACCATTCAAA GCTACCCGAA CTATGTTGGA AATTTTTTTT TTCTCATTAA 180
 AATACAGGCC CTTAGGCTCT ATTTTAAATG TATNAGTCGC AN 222

SEQ ID NO:7060

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08296

SEQUENCE DESCRIPTION:

GATCAAAATA CCTGTTTATA TATCTGTTAT TTAAAGAAAA ATTTCCACA GTGTTTTGTT 60
 ATTTCCAGC GTTCTTAGN ACATTTGGGN ATTNCACTAA AATATAGCTG GGTGGATTGA 120
 AGTAAAGGGC AANTGCGTTT GCAAA 145

SEQ ID NO:7061

LENGTH:20

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08297

SEQUENCE DESCRIPTION:

GATCTTCCAA AACACACAAA 20

SEQ ID NO:7062

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08298

SEQUENCE DESCRIPTION:

GATCAATCAA GAATAATTTT AATTTTCTTT TGTATTTGAA ATGTAAATAG TTTTCTTTTC 60
 GATTAAAAAA ATTTCTTATA ACTGCTAAAC AGTTAAAANC TTAAAGTAG TAAATGAGTT 120
 TATAGAAAGC ATGTATTCTT GATTTTNGTG CCTTGGTAAA GTTGATAACT ATTTATGAAT 180
 ATTTGACCAA ATTATTCCAG CATCAGAATA ATAAGCAAAA TAACCNN 227

SEQ ID NO:7063

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08299

SEQUENCE DESCRIPTION:

GATCACACCA CTGCATGCCA GCCTGGGCGA CAGAGTGAGA CCCTGTCTCA GAAAAGAAAA 60
 AAAAAGTAAA AATTGCATGT AAGTTGACCC GCACTATTCA AATTTGTGGT GTTCAAGGTT 120
 CAACTGTAAT TTCCTAGCAG CATTTTGTGT GTTTGAGAAT CTCTTGACAC TCTTCAAGTA 180
 AATCCCTAAA TTACAAC TTT GACATCAAA 209

SEQ ID NO:7064

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08300

SEQUENCE DESCRIPTION:

GATCGACTGA GCTCAAATTT CAGTTGGGGC CCTATTAGTC TGCCTTTCCA AAAAGGGCGT 60
TGGGACTTTA ATTTAAACT TAACCAGTTG AAAAATAAAG GTGGCGTGGA AATGCTTTTT 120
GATTTGCAAA 130

SEQ ID NO:7065

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08301

SEQUENCE DESCRIPTION:

GATCTGGGCT TTAAAGCAGA GGCCATGTCC TTGTCTGGTC CTGCTTNTGG CTACAGCCAC 60
CCTGGAACGG AGAAGGCAGC TGACGGGGAT TGCCTTCCTC AGCCGAGCA GCACCTGGGG 120
CTCCAGCTGC TGGAATCCTA CCATCCCAGG AGGCAGGNAC AGCCAGGNG AGGGGAGGAG 180
TGGGCAGTGA AGATGAAGCC CCATGCTCAG TCCCCTCCNA TNN 223

SEQ ID NO:7066

LENGTH:260

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08302

SEQUENCE DESCRIPTION:

GATCGGAGAC ATCCTGCTGT TCGGNACGTT GCTGATGAAT GCCGNGGCGG TGCTGAACTT 60
TAAGCTGAAA AAGAAGGACA CGCAGGGCTT TGGGGAGGAG TCCAGGGAGC CCAGCACAGG 120
TGACAACATC CGGGAATTCT TGCTGAGCCT CAGATACTTT CGAATCTTCA TCGCCCTGTG 180
GNACATCTTC ATGATGTTCT NCATGATTGT NCTGTTTCGGC TCTTGAATCC CAGCGATGAA 240
ACCAGGAACT CACTTCCAN 260

SEQ ID NO:7067

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08303

SEQUENCE DESCRIPTION:

GATCGAAAGA AGNACATCAT GAAAAATAAA TGAACCTTGC TTAGTGGATT GACTCCTTTG 60
CTGAAGTCAG TTATTCATCA AGAATGCAAT TAGNCTAATT GTGAATAAAT GATTGNNTGA 120
AGNTATAATA AATAAAACCG TAAACTCTGG CAAA 154

SEQ ID NO:7068

02013

LENGTH:29
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08304
SEQUENCE DESCRIPTION:
GATCAATAAA ATGTGATTTT NCTGATAAA

29

SEQ ID NO:7069
LENGTH:74
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08305
SEQUENCE DESCRIPTION:
GATCGTCCCA TCACAGTGTT GTTAATGTTT GCTGTATTTA TTAATTTNCT TAAAGTGAAA 60
TCTGAAAAAT GAAA 74

SEQ ID NO:7070
LENGTH:264
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08306
SEQUENCE DESCRIPTION:
GATCTGGCTT CACAGACAGT TGACACATCT AAAAGAATCT TTGTTTCCAA CTGGACTGAC 60
TCATTGAGAG GAAACCTTCA CTGCACCTCA CCAGTGCAGA CAGAAGACCT GGAGGCAGGA 120
CGGGAGGCAT TTTATACTTC AGCACGATAT GGGCCCTGAC TTTTCATTTT CTACATGGAG 180
ACATATTGCT GGAGGCTCAT CATCCTGAGG GGAGAAACAT GGATTTTCATG GTTTTGCCAT 240
AAAAGTATGC AACAAAGAGT TCCN 264

SEQ ID NO:7071
LENGTH:27
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08307
SEQUENCE DESCRIPTION:
GATCANTAAA AAAAATAAAT AATTAAA

27

SEQ ID NO:7072
LENGTH:175
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08308
SEQUENCE DESCRIPTION:
GATCTNTTTT NTCTGGAGTC CTGGAGTTNC TTTCTAAGG TTAAATATAA GCAAGCNCCA 60
GAAAGAATGC TGACAGAAAA GGGACCCTAG CTGTGGTAGG AAGTGGCCCT CAGAGTCAAG 120
GAGGCAGGAT GANTTTAAAT NCTNCATGTA GGGCATATTT TGGGGAGTNA TGGGN 175

SEQ ID NO:7073

LENGTH:281

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08309

SEQUENCE DESCRIPTION:

GATCGACTTT AAGTTGCTTC GGGTCTAGTA GAAATCCGGT TATTCCAAG CCTGTNAAAT 60
GTGAAGTTCA AGAAAATTGA ATCCGTGTAT AGCAAAACCA TTTTNTCTCA CAATTTTTTA 120
ACCAATGAAC ATTGTGTGGG AAATTNATTC CATATGTTT CAAGTCATTT ATGCAACTTG 180
AATAATTAAA ATATTCATTG GTAAGAGCTG CCTGATGTCT TTAAAGTCAG GAAATTGTCT 240
TATGCCAAAA GTAGACAANC TCAAACACCA AAAGGTCANN N 281

SEQ ID NO:7074

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08310

SEQUENCE DESCRIPTION:

GATCATTTTT CTTGGAGGNT GGAGATTGGC TAGTACCTCT GGCCTAACTG TGTAGGTCAA 60
TACTCTTTTA CATTGCCTTC TAATAAAAGC AGNATGATNC AGCAAA 106

SEQ ID NO:7075

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08311

SEQUENCE DESCRIPTION:

GATCTTGTGT CTGTTGTGCC TGAATTTGGC GTGTCTAATA AAGGCCCATG CACACTATAG 60
GCACTCAAA 69

SEQ ID NO:7076

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08312

SEQUENCE DESCRIPTION:

GATCAGTGAA ATNTTAAACT CCCACGGTAA CATCATGCCT ATGGACATTA AAGGAATAGC 60
AAGGACTTGC TCCCACGACT TCACATTTGC TCCCACTGGC CAGGAATGTG GGCTCTTAGT 120
GATTCCAGAT AAGGGCAAAG CTGGGGCCCA ATGTATGTAG CCAAATTGNA GNAATCATGG 180
NGCACAGGCA AATGGTGACA TGAATTTGTA ANCTGTGTTT ATGTGTTNTT ATATTTATAT 240
TTCTGANCTC AGTACATGTT AATATTTAAN TAATTATGCA GTAACCTTCA AA 292

SEQ ID NO:7077

LENGTH:29

TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08313
SEQUENCE DESCRIPTION:
GATCCTGCAC TCTAGCACAT GACTCCAAA

29

SEQ ID NO:7078

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08314

SEQUENCE DESCRIPTION:

GATCCCCTGT CCCCTGGGGC TGGTGGATAG GGCAGAATCC TGGGCCCCCA GAGACCTTTG 60
CCCACACACA CTCCTTCCCC TTGTCCCTGG GGNACTCCCC CAGGATTGTG CAATAGTCAG 120
AGTGTCCCTT TTTGCAGGGG ACTGGGCCAT GGGTCCTAGG CCCATCTGTC CATCCTCCTC 180
TCCATGCAAG TGCTGTTTGG GCAGNAGTCA CCATGCAAGG GTGNCATCGN CANCCACGTA 240
CCAAGNCACC GCAGCTGCTG CCACTCTGCT GCCTGTACAG AAGGAANCTG NATCTTTTNN 300
ATATTCTAAT AAAATNACTG TGGGNTTTNA NAAA 334

SEQ ID NO:7079

LENGTH:245

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08315

SEQUENCE DESCRIPTION:

GATCCCGTAA ATTGAAGGCA ACAAGGTCTT GGTCTNCAG TAAGGGGGGC ATGGAGCCCT 60
GGTGGGAAGG AAAGAAGNGA AATTTGTGTT CCTGATTCCT TAATCCCCAN GAAAGGTCCC 120
TCTGCTAACA TTCACATATC TTTTCCTAGC CAAAGTCTGT CCATTTNAAC CCTNTAGCAT 180
CTGAGCTATC TGCATCCAGN TTTCAAANAT ATTTGNTGT TTACTAACAT GTNTGTNAGC 240
CTNTN 245

SEQ ID NO:7080

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08316

SEQUENCE DESCRIPTION:

GATCACAAAT NACTTGTTGA AATGTAAGGC AGTCCCCCTC CTCCTCTTTA TCTACATTAC 60
TTCCCGAAAA TAAATGCANA TTAATAAA 88

SEQ ID NO:7081

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08317

02016

SEQUENCE DESCRIPTION:

GATCAGGTCA CAGTGTGTAC GTAAGAGTCA GCTNCTTATG GNTATTGTCA TCTAGGTAAC 60
 TTTGTAAAAA AACAAACAAA ACTGGCATTG TTAATTCCAA AAAGAAAAAA AAAAGCAGTA 120
 AAAANAAANG GNCATTTGNA CCNCCGGCN 149

SEQ ID NO:7082

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08318

SEQUENCE DESCRIPTION:

GATCTCAGCC TCGGGTGGTC AGGGTGGGAA ATGATAGGAA GAAGCTGTCA TCTGCATCCT 60
 AGTTTGCCTG AAATGAACCC AAATAATACC CATTATTATT AGTCCTGAAT TATGAGTAGT 120
 GAATGATACC CATCATTCTG GCATCATGAT GAGTAGTGTC CACTTCCATT CTGAAAAGTG 180
 CCCTGCTGTG AAAAATAAAT TATATAGTCC TCCTAGGTAA ATGAAGGAGG AGGGAGAAGT 240
 GTGAAAGAGT ATGGCTTAAA TCAGACAAGA TATACAAGAA GATACTTTAT ATAGGGCAGG 300
 AGCGGTGGCT TN 312

SEQ ID NO:7083

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08319

SEQUENCE DESCRIPTION:

GATCTGGGAA ACTGATTGAA TAATACACTT TTCTTGCTTT GGTGCTCAAA GTGGTTTTTT 60
 TCCCCAATA AAATTATTTA ATTGAAA 87

SEQ ID NO:7084

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08320

SEQUENCE DESCRIPTION:

GATCAGGAAA TGCATCTNCG CAGATGGTAT TTCCTTCAGA AAAGACTTTN CTACTTTAAA 60
 TATAAATNAN GCCATAACAG TTTCATGCTG TGGAAAGAGG GTGAAAAGGT TCATTTTAAG 120
 AGATTATATA ATANGACCTT NCACATTTCC TGTGAAATGT CTAACCTTNC CAGTNCCTCA 180
 GCAAGTTTTT TTGGGGGGTG ATGGGGAGNN GGTAGTATTG GTTTTAGAGG TTTCAAATCT 240
 GTGANCTTTG GAGAGGGGAC AGTTGTTGGC TCTGGTATTT CCTAGTTTTG TAGTAACGTT 300
 TTGCTAGCCN NN 312

SEQ ID NO:7085

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08321

SEQUENCE DESCRIPTION:

GATCTGATGG TTTTAAAAAG GGGTGTCTCC CTGCACAAAC TCATTCTCTG TTTGCCTACC 60
 GCCATCCGCT TAAGATGTGA CCTGCTCCTC CTTGCCTTCC GCCGCGATTG TNAGGCCTCC 120
 TCAGCTATGT GGAAGTGTA ATCGAATTAA ACCTCTTCT TTTGTAAA 168

SEQ ID NO:7086

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08322

SEQUENCE DESCRIPTION:

GATCCATGTG TTTTACTCTA AAGTGCTAAA TATGGGAGTT TCCTTTTTTT ACTCTTGTG 60
 ACTGATGACA CAACAGAAAA GAAACTGTAG ACCTTGGGAC AATCAACATT TAAATAAACT 120
 TTATAATTAT TTTTCAAAC TTAAAA 146

SEQ ID NO:7087

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08323

SEQUENCE DESCRIPTION:

GATCAATAAA GCTGTCTAC ACTTGTGCTA GGNAGGCACC GCTGTGACTG GGCTCCGGGC 60
 CTTTCCACTA CGTTGAAGAA GAAAACCTAT TTTTAAATGT AAATAAAATA TCTGGTAGCC 120
 TGTGTGGAAA GCTGACCGTT TTAAGAAGTG GCATGTGCCT TGAAAGGGGG CAGAATGTTC 180
 AGTCGGTCGT GTTTTAAACA CAGAGTCTCT AGAAGAGGTG CAGACATCCC GTCTGACTGT 240
 CCCTGTGGAC TCTCTCAGTT GTATGTTGCT ATAATCCTCC AAATCAAAGC TCTTTCTGCT 300
 TGTGCAAGAT TNNN 314

SEQ ID NO:7088

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08324

SEQUENCE DESCRIPTION:

GATCTTACTG AATTTATTTT GTAAATGCCT AATGAGGCAG ATTTTGAAT TAAAGAAATG 60
 CTACATGTAA A 71

SEQ ID NO:7089

LENGTH:412

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08325

SEQUENCE DESCRIPTION:

GATCCTAACA TATCAGGACA TGGACTCAGG ACCTGCCCCG TGATGCTGTT GATTTCTCAA 60
 AGGTCTTCCA AAACCAACA GAGCCAGAAG TAGCCGCCCG CTCAGCGGCT CAGGTGCCAG 120

CTCTGTTCTG ATTCAACAGG GGTCCGTCAG TAGTCATTGC CACCCGCGGG GCACCTCCCT 180
GGCCACACGC CTGTTCCAG CAAGTGCTGA AACTCACTAG ACCGTCTGCC TGTTCGAAA 240
TGGGGAAAGC GTGCGTGCGC GTTATTTATT TAAGTGCGCC TGTGTGCGCG GGTGTGGGAG 300
CACACTTTGC AAAGCCACAG CGTTTCTGGT TTTGGGTGTA CAGTCTTTGT GTGCCTGGCG 360
AGAAGAATAT TTTCTATTTN TTTTAAGTCA TTTCATGGTT TCCTGGTCCT GN 412

SEQ ID NO:7090

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08326

SEQUENCE DESCRIPTION:

GATCTATTTT TGGCTTATGT CTTTAATAC TACTCTCTTT CTCTGAATTT TGAAATATGA 60
AGTAAATCT AGCCCATTTG TTTTATGCAA A 91

SEQ ID NO:7091

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08327

SEQUENCE DESCRIPTION:

GATCTCAAGA GTTCAAGACC AGCCTGGGCA ATATGGTGAA ACCCGTTTGT ATTAAAAATA 60
CAAAAATTAG CTGTGCATGG TGGCCACGG CTGTAATCCC AGCTACTCAG GAAGCTGAGG 120
TCCGAGAATC ACTTGAATGC TTGAACTCGG GAGGCAGAAG TTGCTGTGAG CCGAGATGGC 180
ATCACTGCGC TCCAGCCTGG GCAACAGAGA GAGACTGTCT CCACTGTCTC CAAAAAAAAA 240
NGAAAAAAAA AAGGTTGTTN GATT CNTGGC CCTCAAGGAA ATNTGGAA ANAN 294

SEQ ID NO:7092

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08328

SEQUENCE DESCRIPTION:

GATCATGTTT TGAAGCAGCA GGTCCAGGTC ACTTTGTATA TAGAATTTTG CTGTATTCAA 60
TAAATCTGTT TGGAGGAAA 79

SEQ ID NO:7093

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08329

SEQUENCE DESCRIPTION:

GATCTTTCCC TAGAGAATGT AACATACGTT TTTATTCATT TAATCACTTC ATTATGCCGG 60
GGTTAATNAT GTTTATTTTA TAATTGGTAA TAAAGGCCAC ATTTATTTT GTAAGTGTAA 120
AA 122

02019

SEQ ID NO:7094
LENGTH:50
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08330
SEQUENCE DESCRIPTION:
GATCTTAAAC TCTTTGATTA AAAATAATAA ATGGAAATGT GTTAAGCAAA

50

SEQ ID NO:7095
LENGTH:77
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08331
SEQUENCE DESCRIPTION:
GATCCAGGGA TTTGGGGAAA AGGAAGGAAT TTGATGTTTT TTGGGGTGGG AGGGGAGGGT 60
GTGTTTTTTA CACCAAA 77

SEQ ID NO:7096
LENGTH:186
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08332
SEQUENCE DESCRIPTION:
GATCGCTGGC CTTCTGACT TAACATTNAT GCATGCCAAG GTGTTGATGT TCCCAGCCAC 60
GTTAACACCT TCCACAAGNT CTCAAGAAAA AGCAGACGGA TAACTGATGT GAATTGGACA 120
GTTTCTATTG CTTTTCCTTT TTTCCATCCC TTCCCTACCA TCAAAAGCAT ACCTGCTCTA 180
ATTAAA 186

SEQ ID NO:7097
LENGTH:291
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08333
SEQUENCE DESCRIPTION:
GATCATATAC TCTGCTGTGG TCATGCCAC TCTTTGGGAG TATATCCCT TTATATATAT 60
TGAGTATTGT ACCACTGAG AAATTCCTTT GTTCTGTTAT ACAAATTAA TCTTCTGCT 120
CATAATGATT GATGATACCA CCAGTAAAAA TAGGATGTTT ACCCCAAAAC AAGTGTCAAT 180
TAAGAAATTG AACACAACCA CATTTTAA AATGAACTT CTATCGGAAG TAAATTAATT 240
TGNGGTAATA AAGTCCAGTA TTNGGNAAA TGTACAATGT TAAATCTCAA A 291

SEQ ID NO:7098
LENGTH:307
TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS08334

SEQUENCE DESCRIPTION:

GATCAGACTT TTGTNTCTTG GGTCCCAGAT GGCACAGGAG CACTGCATGC TTGTTTTCTA 60
GAGCCCAGCC AGTCATGGGT GCTAGCCTAG TCTCCACACA CCAGCAAGTA GAACCCAAGT 120
GTANNNNNAT AAATATTTCC TGAGTACCAG TAAGAGAATG CATTCTTTTC TCATCTAGGC 180
CAGGAATGTT GAAAATGCTC AGCCTTACAT AGAAACTCCT AGATTTTCAC TAACGCATTT 240
CACAAAAGTA AATAAGTATT TCATATAATT CAGAGGATGT TTAAATTGTC AGCATTTTAA 300
TAAATAN 307

SEQ ID NO:7099

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08335

SEQUENCE DESCRIPTION:

GATCTGTACT TTGAACAAAG AAAGTGTGTA GAGACCCCTG GGAGTGAGGG GTAGGGGATA 60
CAATACTCTG AAGCAGAAGA GGACCCCTTG AGTGATGGTT AGGGACTCTT CTGAGTAGGA 120
GACGTAATCG GCTTTTGGTC CATGGAACCT TTACCACATG TATTCAGCAT ATATACACGA 180
TTAAAGTGCT GCAAATAAA 199

SEQ ID NO:7100

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08336

SEQUENCE DESCRIPTION:

GATCTGGGAG TGGCTTCCTA ACGGAAATGG AACAGGATTA CCAACTAGTN GACGAAAGTA 60
ATGCTTTCCA TGACAACCTT AGGTCTCTTG ACAGNAATCT GCCCTCAGAC AGCCAGGACT 120
TGGGTCAACA TGGATTAGAA GAGGATTTNA TGTTATAAAA GAGGATTTTC CCACCTTGAC 180
ACCAGGCAAT GTAGTTAGCA TATTTANNGT ACCATGGTTA TATGATTAAT CTTGGGACAA 240
AGAATTTNAT AGAAATTTTT AAACATCTGA AAAAGAAGCT TAAGTTTTAT CATCCTN 297

SEQ ID NO:7101

LENGTH:296

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08337

SEQUENCE DESCRIPTION:

GATCTTTGTC TGTGAAGAAG AAAATTATCT CCCTAGTTCA ATCTGTAGTG AAATAAGGCT 60
ACAGAAGGCA TTGTTTTTTC CTTTTTNATT TTTTGTATTA TATATTNCC TTAAATATGT 120
TTTATTGTCT TCTCTANGCA AAAAGTTCTT AATAANCATA GTATTTCTCT CTGCGTCCTA 180
TTTCATTAGT GAAGACATAG TTCACCTAAA ATGGCATCCT GCTCTGAATC TAGNCTTTTT 240
AGAAATGGCA TATGGTTTTG ATGATATGNC CACCATCCAA AATGTCCGAN TNAATN 296

SEQ ID NO:7102

02021

LENGTH:305

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08338

SEQUENCE DESCRIPTION:

GATCAACTTT AAGAAGATTT AAAAAACGCT CAAGAAAGAN GAGGATATCC NACTNTTCCC 60
CGTGCAGACA AAATACATGG ATGTGGTCAA NGAGTGAATC CGTTTAGCTC GACAGATTGA 120
GAAATCTGAG TATCGGAAC TCCAGGCTTG CCTNCACAAC TCTTGGATTG AGCAGGCAGC 180
AGCTGCCCTG GAGATTGAGC TGGAAGANGA CATGTATAAG GNAGGAAAAG CTNNCCAGCA 240
AGAAGAACGT CGGNGACAAA AGCAGATGGN GGTTC TNAA GAAGGAGCTG CGNCNCCTGC 300
TTNTN 305

SEQ ID NO:7103

LENGTH:414

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08339

SEQUENCE DESCRIPTION:

GATCCACAAG TCCTTGTTCC ACTGTGCCTT GGTTCCTCTT TATTTCTAA GTGGAAAAAG 60
TATTAGCCAC CATCTNACCT CACAGTGATG TTGTGAGGAC ATGTGGAAGC ACTTTAAGTT 120
TTTTTCATCAT AACATAAATN ATTTTCAAGT GTAACCTATT AACCTATTTA TATTTATGT 180
ATTTATTTAA GCATCAAATA TTTGTGCAAG AATTTGGAAA AATAGANGAT GAATCATTGA 240
TTGANTAGTT ATAAAGATGT TATAGTAAAT TNATTTTATT TTAGATATTA AATGATGTTT 300
TATTAGGATA AATTTCAATC AGGGTTTTTN GGATTAANCA ACCANCCAAT TGGGTCCCCA 360
GTAAANTTTC CATTTCAGAT ANCCACCANN TAGTTTCNNN GTNTAGGTCC ATTN 414

SEQ ID NO:7104

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08340

SEQUENCE DESCRIPTION:

GATCCCCTGA CTGGCTGGGG GCAGCTCCCA GGATATCCTG CCTTCCAACT GTTTCTGAAG 60
CGCCTCCTCC TAACATGGCG ATTCCGGAGG TCAAGNNCNT GGGCTCTCCC CAGGGTCTAA 120
CGGTAAAGGT GACCACATAC CAGTGCCAAG GGGNTTNTAA AGTGGTGATG TAGTTNTGCT 180
CCCCTCCCCA AGAGCGGGTG GNGGGGGGTT NAANATGTTT GGCCTGNNTA AGTGGGCCTT 240
CCCATNAAG TN 252

SEQ ID NO:7105

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08341

SEQUENCE DESCRIPTION:

GATCTTATTT TTTAATTTTA AGTGCCACTA TTAATGTAAA AAGGGGGGGG CTCTACAGCA 60

GTCTGTGATGA AACTTAAATA TATATCCTTT GTCCTCGAGA TTTTAGGAAG GGTGTAGGGT 120
GAGTAGGCCA TTTTNAATTN CTGAAGTGCT AAGTGTTTTT ATACAGCAA CAAAAAGTCA 180
ATTTTCCTTT CCACCAAGTGC GAGAGAGGAT GTATACTTN CAAGAGAGAT GATTGCCTAT 240
TTNCCGTTTG ACAGAGTCCC GTAGATGAGC AATGGGGAAC TGGTTGCCAG GGTCTAANTT 300
TGGATTGATT TATGCACN 318

SEQ ID NO:7106

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08342

SEQUENCE DESCRIPTION:

GATCTGTGAC CCCAGCCATG AGGACCCCTCG CCATCCTTGC TGCCATTCTC CTGGTGGCCC 60
TGCAGGCCCA GGCTGAGCCA CTCAGGCAA GAGCTGATGA GGTGCTGCA GCCCCGGAGC 120
AGATTGCAGC GGACATCCCA GAAGTGGTTG TTTCCCTTGC ATGGGACGAA AGCTTGGCTC 180
CAAAGCATCC AGGCTCAAGG AAAACATGG CCTGCTATTG CAGAATACCA GCGTGCATTG 240
CAGGAGAACG TCGCTATGGA ACCTGCATCT ACCAGGGAAG ACTCTGGGCA TTCTGCTTN 299

SEQ ID NO:7107

LENGTH:302

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08343

SEQUENCE DESCRIPTION:

GATCTTAGAG GTTGAAGCCC ACCTTCTCTT TTCACATAGG AGGGAACAGA CCATGGAAAT 60
TTAAACGACT TCCTCAGGT CACAGAACTA GTTTTTTAAT CCTCAGGCAG TGNATCCCCC 120
CACCTACAA CTGTGCACAA CCTCTTTCCC CACAGTGCAA TTCAGAATAT GCTCAGGGAA 180
TGCCAGGCAC CTTGTAAAC TGCTGGGAGA AAAGCATGNT TCCACAAGG ACTAAGTATC 240
AGTGATTTGT AATTTTCCTG TTTTGTATTA TCTGCTTTCG TGATGTAGAC AAGAGTTAAC 300
TN 302

SEQ ID NO:7108

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08344

SEQUENCE DESCRIPTION:

GATCNAACTG TCTCACTGCT TTTCCAACTA TAATCATNTC GCTCTNACTT TAACAAAAGG 60
CGATGGCACA GTAATTTAGT AAATTTNTGT AATAACATNT AAAAAAAGN 110

SEQ ID NO:7109

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08345

02023

SEQUENCE DESCRIPTION:

GATCCTGTCT AAAAAAGAAA AGAAAAGAAA AGAAAAGAAA AGAAAATCAG CATTGTATCC 60
 CCAGAACCTG CTACAGTGTA CTGTACACTT AATAAATATT GGTGAATGA ATGAAGTGA 120
 A 121

SEQ ID NO:7110

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08346

SEQUENCE DESCRIPTION:

GATCATCAGT AAATTTGTCA TGTATATAT TTATTTTTTT ATAAATCAAG ACTTCTGTGT 60
 GCTCTTAAAT ATATTAAAA CAATTTACAT TTCAGGAAA 99

SEQ ID NO:7111

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08347

SEQUENCE DESCRIPTION:

GATCCAGNA GGAGGGAAGA AAATTTGCAG TGACTGAAAA CAGTAAAAAA AAAAAAATA 60
 ATGTATAAAA AAGTTGCATT ACACAGTNCA AA 92

SEQ ID NO:7112

LENGTH:304

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08348

SEQUENCE DESCRIPTION:

GATCATTCTN GTTGATACCC TTCTTTGAAT ATTCTAGTGT ATTAATATAC CATTGGTTAT 60
 TNAATCATGT CTNATTAATG GACTGGCTGT TTTCACATAT TNGATATATC AAGTGTCTTC 120
 ACAACTTGTG CTTGCATATT CTTTCCCAA ATATTGAAAG TCCATATATT TCCTTGATCA 180
 TTTTTAAAGT TGATATCTNA ATNTNTCATT GTAGTNGCAA AGCATGTAAT TNCTTGGGGG 240
 AGGGGGGCTG TAAATATTGA CATTTTAAAA TAAACTTTT AAATCAGCCT TAAATGTATC 300
 AGGN 304

SEQ ID NO:7113

LENGTH:309

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08349

SEQUENCE DESCRIPTION:

GATCAAATTT CACGTCGTCT TCTGTATACT GTGGAGGTAC ACTCTNTAG AAAGTNCAAA 60
 AAGTCTACGC TCTNCTTTCT TTCTAACTCC AGTGAAGTAA TGGGGTCTCG CTCAAGTTGA 120
 AAGAGTCCTA TTTGCACTGT AGCCTCGCCG TCTGTGAATT GGACCATCCT ATTTAACTGG 180

CTTCAGCCTC CCNACCTTCT TCAGCCACCT CTCTTTTCA GTTGGCTGAC TTCCACACCT 240
AGCATCTCAT GAGTGCCAAG CAAAAGGAGA GAAGAGAGAA ATAGCCTGCG CTGTTTTTTT 300
AGTTTGNNN 309

SEQ ID NO:7114

LENGTH:282

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08350

SEQUENCE DESCRIPTION:

GATCTTCCCC AGCTATGAAG CCTATCTTGG AATGGGAAAC CATGAAATTT GTCTTTTAAA 60
AGAAAGGGAA GAAATAGCCT TACAGCCCCT GTTCCTCCAA GTGCACATTT AGCCTTAAAA 120
TCCTGGGAGT CGGGAGACAC CGTGGAGTCC TTACATCCAC AGTGTCTGCT GGTCGTGGTC 180
AGAAGGCAGT AATGCAAGAG TCCTTTTGTG AAGAGTGTTT CTATGTAGAG ATGTTTATAT 240
TTAAGTAGTT CTTTATAAA TAAAAGCATT TCTAATGGCA AA 282

SEQ ID NO:7115

LENGTH:27

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08351

SEQUENCE DESCRIPTION:

GATCTGTTTT CTGTAACCTT TGCTAAA 27

SEQ ID NO:7116

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08352

SEQUENCE DESCRIPTION:

GATCTTAGGC TTCAGCTCTT TATCTTACAC CTTGAGACCC CAAGAGAGTC CCAAATTCCT 60
GGAAAGGCAG CATCACAGAG TGGGGAAATA CAGGACTTGG CTTTAGGTTC TAGTCCTTAA 120
CACAGCTTCT TCCTTGCTGT GTGTTCTTTG GTAGGTCCT AAATCTCTCT GAGCCTCAA 180
TTTCTTATCT CTAGGTTGAA AAATAAAATA AAGTCCCCAT GCCAATCAGT GCAAGGAATC 240
TGTGAGATAA A 251

SEQ ID NO:7117

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08353

SEQUENCE DESCRIPTION:

GATCACGCCA CGGCACTCCA CCCTGGGCGA CAGAGCGAGA CCTTGTCTCA GAAAAAATCT 60
GTGAGGTAA AAGGCTGTGT GTGTGAAAAT ATCTTGAAA TTGTAAAGAA CTACACAANT 120
AAA 123

SEQ ID NO:7118
LENGTH:295
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08354
SEQUENCE DESCRIPTION:
GATCATT CAT CAACATGTGT CTCTNAATTT AATTCAGTAG TTGTAATTAT TCTTTGGTTT 60
AGACCAAGAA AAAGGAAATC CCCCTTTNA ATGTATTCCT TGGTTTNAGG ACATGACTCC 120
TGTAAGGNAG AGGAAAGGGA GATGCTTCCT GTTTGANCTG CAGTGAATTC ACGGTCCTG 180
TTTCACTACT CCAAACCTTA TGGCGACTCA CACACACATT CCTCTTNCCT GTTACTGCCA 240
AAGGTTGCGG TTTAGTACAC TTCAGTTCCA CTCAAGCATT GAAAAGGTTT TCGTN 295

SEQ ID NO:7119
LENGTH:203
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08355
SEQUENCE DESCRIPTION:
GATCCCCAGG ATGCCCACTT CCCTCCACCC CCACACCCCA GCCGTGTCCC TAACCCCTGG 60
CAACCAGGAA TCCACTCTCC ATTTCTATAA TGTTGNNATT TCAAGAATGT TATTCAATGG 120
AATCATATAG TATGTAACCT GTTTTGAGCT TAAAAAATAA GTATACATGA CTTTAATGAG 180
GAAANTAAAA NTGGATATTG AAA 203

SEQ ID NO:7120
LENGTH:82
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08356
SEQUENCE DESCRIPTION:
GATCCGTTAG TGTCTGTTTA GAAAAGATGT TATAAACTTA CAGAAACAAA TATAATAAAC 60
TGAAGCAGAT TTGAAAAGCA AA 82

SEQ ID NO:7121
LENGTH:79
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08357
SEQUENCE DESCRIPTION:
GATCTTTTGC ATTGCAGAGA TTTTATATAT ATTTTGTTTG TAATGAGCCA TTCTCAATAA 60
ACATTATTCT CACTGCAAA 79

SEQ ID NO:7122
LENGTH:299
TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08358

SEQUENCE DESCRIPTION:

GATCCCTAGT AACTCCTTC TTCACTTTTA CTGTCAGATT TACAAAGGTC CTCCCATTGC 60
AAAGCAGTGN NNNTCCTAAT TTATATATTG TTTTNTAGT TCATTTTGTG TTTCCAACCTT 120
TTCATGTAAA ATTTTAATTA TTTTGAATG TGTGGATGTG AGACTGAGGT GCCTTTTGGT 180
ACTGAAATNC TTTTCCATG TACCTGAAGT GTTACTTTTG TGATATAGGA AATCCTTGTA 240
TATATACTTN ATTGGTCCCT AGGCTTCCTA TTTNGTNACC TTGCTTNNNN NGTGGCANN 299

SEQ ID NO:7123

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08359

SEQUENCE DESCRIPTION:

GATCATGTGC CAAGGCTGCG GTGCGTTCTG TCACGATGAC TGTATTGGAC CCTCAAAGCT 60
CTGTGTATTG TNCCTTGTGG TGAGATAATA AATTATGGCC ATGGGAAA 108

SEQ ID NO:7124

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08360

SEQUENCE DESCRIPTION:

GATCAGACTG TGCTTTCTAA TTCTAAAAA TTGAGCAGTG TTGGTATTCT TNCAGTATTT 60
TTNCTCTCAC CTGGAAGT ACCTGGAAGT TGTCAGGCAT TTNCTTACTG NNN 113

SEQ ID NO:7125

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08361

SEQUENCE DESCRIPTION:

GATCTCTAAG TAATTNTNCA AAATCCGGTA TTAATATGTC AAGTTATTGC TTTTGGTAAA 60
TTCATCTGAC CCAGTTATAA ATGAAAGANT ATGGANTTAA AAATTTTAAA NCTAAATAAT 120
TTGNN 125

SEQ ID NO:7126

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08362

SEQUENCE DESCRIPTION:

GATCATGCTC CATCCAGCCC CACCCAATGG CCTTTTGTGC TTGTTTCCTA TAACTTCAGT 60
ATTGTAAACT AGTTTTTGGT TTGCAGTTTT TGTTGTTGTT TATAGACACT CTTGGGTGTA 120

AA

122

SEQ ID NO:7127

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08363

SEQUENCE DESCRIPTION:

GATCGGCACT CACGATTGTN ATGTTGGCTA CATCCTTGAC AAAGCCGATG GCCTTTCCAG 60
GTTGGAACCTT GCAATAACCA TCCTGTTGAG GATGCAAAGG GCATGAAATA CAGGTTATGG 120
ACCCGAAGTC TCAGCCTCCC CACGCAGTTC AATAACATTT ACTAAACAAA ACAAGATGTG 180
CCAGGGCCTG GGGGATGGGA TAATTCAGA GAGAATTAAA GCATCCTTGT CCTCAAGGAG 240
CTTAGGGTCT GGTAAA 256

SEQ ID NO:7128

LENGTH:346

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08364

SEQUENCE DESCRIPTION:

GATCAACAGG GGTGAAAAGA ACCACCCTGA GGTTCCTATG CCTCTCCCAN NTTAGTGGT 60
AGNATTTTGT GTCTTTACTC CACCCTTCAC CCTAGTTCCA CCAAGGTTCA CACACCAGAT 120
GTAAGTGTG TNNAGCTGAG TTGTATGGAT TAACTTCAGT CCACTGTAAA TACACCTGGG 180
ATGGGGTGGG GTTGGGGTTG TTTAGGGAGA AGCAGCCAGA CTGCTTTGT GAACTGAATG 240
TATTTTTATG CAATTTTGAG TGGCCTTTCA ACCCTAAGAT GAATGGTTTT GTTTACTGG 300
TTGTTGTTAT ATAGTTTGA GTATTCTGTG TTTGAAAGTT TGGGTN 346

SEQ ID NO:7129

LENGTH:42

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08365

SEQUENCE DESCRIPTION:

GATCGTGTCT CTGATAAAAG AATAAAAGCT GTTTATTGCA AA 42

SEQ ID NO:7130

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08366

SEQUENCE DESCRIPTION:

GATCTTAGGT CCCACTCANG GTCCTAACTG GCTATGGCCA CAGCTGGAAC TACCCGAGAA 60
GNCTTTTGTA CATGTTTGGT AGCCGTAGCA CAAGTGATTG GAGTAGAACA TGCTACTGCT 120
GTACATTTTT AACTCCCCTA ATGGTGTGTC TATAATTNTN AAATCTAAGG GGGGGGGCTC 180
AGTAAAGCCT CCTGGCACCA GGCCTTCCTG CTCGACTGAA AAAAATTCN TCTTTGAAAA 240

02028

TCCCCTTTTA CTCATGGCCC ACAGTAGAAT ATCCAAAACG CCTTGGCTTT CAGGCCTGGC 300
CTTTCCTACA GGGAGCTCAG TAACCTGGAC GGCTCTAN 338

SEQ ID NO:7131

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08367

SEQUENCE DESCRIPTION:

GATCTTTTCA AGATGCATTG CAGATGAACT GCTAGGTGAG GGGGAAGCTT CATTTTGTGTT 60
ACCTGATAGA ATAGCTTTNC TNATGAGATA TATATAATGT GATACTATGT TTGGATATTT 120
TTGGTCTTAA AGCAAGACTC AGTGGTGTAT CTNCATTAAA AGCTTCCTTT AAAAAAGNTA 180
CAGGGNTACT AAAAAACAA GNACCCAAAC AATCAAGNTG GGCCACCTT GGNACCNTGT 240
TTTGNATNAC CTTCCATGGT TTGGTTGGCG GTATGGNAAA AGGATTGNNT GGTN 294

SEQ ID NO:7132

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08368

SEQUENCE DESCRIPTION:

GATCATGCTG TGTGGAGGAC AAATCTTTAA AATTCCAGCA TTGTATTGTC TATTGACACA 60
CAAAGTTTGA AAATAAGGG GCAAAAAATT TTAATGCAA AATGAAA 107

SEQ ID NO:7133

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08369

SEQUENCE DESCRIPTION:

GATCTGCGAT GGCTGACATN AATAGGTCAC CATGTTGGCA GCTGTATAAT CAGCAATGAA 60
AGCTGAATAT TATCACCAGA TAACCAAATT ATGAAATATC TATATNANCT TCANGATTCA 120
GGNCCANTGA ACCAGTATCT GCCCTTACGA GATTTAGCTG AANGTGAANT GCAAGGTGGT 180
GAACGGCATT CTAACAAGAG TGTGAAGAAA GAGATNGANG GCTGTCCGCT GCTGGAGGGG 240
AAGAANGGTG GGGCGGCTTT TNCAAGGCTC TGTGGCTCAG TGGACCTCA ATANATTGGA 300
CCTTCAATAA ATTAATTGNA AANCANGN 328

SEQ ID NO:7134

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08371

SEQUENCE DESCRIPTION:

GATCTGAGGG ATTTGCTCGT CATTTGCTGT GGCAGAGATG ATGTTGACAC CCTGGGATGC 60
TGTGGGAGGG AAAAAAGACT CACGTATATG TTCTGTCAA TCGGAGAAGT AAATAATCCG 120

02029

TTGGGATGCC AGGATACTTT ATTCTACAGC GAAGTTAATT TTGTATCCGT CGAGGCTACA 180
GTAGAGGTAA AAATGACATT GAGTTGTACT TTGCTTTGAA TTAAAGTTGA TGGGTAGCAG 240
CAAA 244

SEQ ID NO:7135

LENGTH:48

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08372

SEQUENCE DESCRIPTION:

GATCTTGACT CCAAAAATTA ATAAATAAAT AAAAATAAAT AAAATAAA 48

SEQ ID NO:7136

LENGTH:48

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08373

SEQUENCE DESCRIPTION:

GATCATGGTA TAATTAATTG AAATTTATTA AAATCTGTTT TTATTAAA 48

SEQ ID NO:7137

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08374

SEQUENCE DESCRIPTION:

GATCTGTGAC TTCAAGTTTG GACCGTGGA GAACAGCACT TTCAAACCCA CAACTGAGAA 60
TNATGACACA GGGACAAGTA GCAGTGATAC ATCAGATGAC GACGATGTNT GAAGGATTTC 120
CTAACAGCTT TNGAAATCTT AGTGTGATAC ATCTCTCATA CAGTTTGGGG NGAATTGTNA 180
AAATGAAAGG ACTATANTTT ATGTAGTGGA ATACCCCN AGAAGAGGNN TTTTGGGG 240
GCTTCAACTT GNTGGAAACC NAGANTN 267

SEQ ID NO:7138

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08375

SEQUENCE DESCRIPTION:

GATCATTGAA ATTCTGAGAA AACTTCTTTT AAACCTCACC TTTGTGGGGT TTTTGGAGAA 60
GGTTATCAAA AATTTTCATGG AAGGACCACA TTTTATATTT ATTGTGCTTC GAGTGACTGA 120
CCCCAGTGGT ATCCTGTGAC ATGTAACAGC CAGGAGTGTT AAGCGTTCAG TGATGTGGGG 180
TGAAAAGTTA CTACCTGTCA AGGTTTGTGT TACCCTCCTA TAAATGGTGT ACATAATGTA 240
TTGTTGGTAA TTATTTTGGT ACTTTTATGA TGTATATTTA TTAAACAGAT TTTTACAAAT 300
GGAANAAAGA NAAA 314

SEQ ID NO:7139

LENGTH:349

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08376

SEQUENCE DESCRIPTION:

GATCCAGAGT AAATGAGAAG TCTCTATCTG AGCTGGTCAG TTAGTGGAGT ACATGTNACT 60
AATCTGGGTT TAAAGTTTAC TTCATTATCT GCTAGTGTC TCCACAGCAG TTCATCCTCA 120
TCCACACTAA GCCATCCTGT NAGCTTTTAA AGGAAGTTAA TTTAATTAAC ATTAATATAC 180
TCTATGGGCT CCCTCTCCCA CCTGTCTGCA TAGAAAGGCA GAATTAGACA TAGCATGCTT 240
TGGAAAAGCA AATAGGAATT GTTGGGAATG ATTTANTCTT GTTGTGTTG TTGTGTTGT 300
TCACTTGTGG TTCTACATTC CTGGTGNATG NTGAATGTNG CTGTCAAGN 349

SEQ ID NO:7140

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08377

SEQUENCE DESCRIPTION:

GATCTTGTGC TTCCATTTAA GAAATTCTTC CATTTAAAGA AGAAAAAAAA TCTCTCTAAT 60
TGACTATCTG AAGATATATG AAAAAGCCTA TGCTTTTAA TTAANCTGTT AAGACAGTCC 120
ATTGAAAGAT TGTGGAAGTN CACATCTATT TTNCACCTTA ATTTTTTCCA TTGTCCCTAC 180
TCATGACTCT AAAAAGTGCA TGGCTTGGGG CTATACTTTG TTTGTCAGTT TGTTGGTATC 240
GTGCCTTTCC TTATCTACAT TAGCTTAGAC TATACCTTNT TTTNAGAAG GGGAAAGTGGN 300
AATTAAGTGT GGCAAAACCT ATTTNGGCAC ACCNCCTTTG TTCAATN 347

SEQ ID NO:7141

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08378

SEQUENCE DESCRIPTION:

GATCTTAATT CTTTGCAATT ATANATGAAA AATGACTGAT TTTTCTNAAA ATATGTAAC 60
TATNTAAATA TATCTGTTG TACAGATTTT AACCATAAAA ACATTTTGG AAAACCATAA 120
A 121

SEQ ID NO:7142

LENGTH:409

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08379

SEQUENCE DESCRIPTION:

GATCTGGAAA CTATTTGGGT TTTGTTTCA ACTTTTCATT NGGATGTTG NCNTTGCACA 60
CACACATCCA CCGTGGAAG AGACGCCCGG TGAAAACACC TGTCTGCTTT CTAAGCCAGT 120
NAGGTTGAGG TGAGAGGTTT GCCAGAGTTT GTCTACCTCT GGGTATCCCT NNTGTCTGGG 180

ATAAAAGATN TCAAGCCAGT TGGCGGGATG GAATGGNTGC ACCGCAAATA ATGCATTTNC 240
TGAGTTTCT TGTAAAAAA AAATTTTTT AAGTAAGNAA AAAANAGGTA ATAACATGGC 300
CAATTTNTT ACATAAAATG GCCTTCTGG NGTNTAAATT ATTCCTAAAA AAATCCNGTT 360
TTATATANAC NATCCAGTTG NTGGAAAAA NTTTTCCAAA NGTTTTTGN 409

SEQ ID NO:7143

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08380

SEQUENCE DESCRIPTION:

GATCTAGAAA ACTTTGGATT TTTGAAGTAA ATTTAATGT TTCATATTAA TTTCTTGAAA 60
ATGTATTAAA TGTCATTGAA AGCCTTAAA 89

SEQ ID NO:7144

LENGTH:375

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08381

SEQUENCE DESCRIPTION:

GATCACTGTG GACCATCTTA GCAGTTGACC TAACACATCT TCTTTTCANN ATCTAAGAAC 60
TTTTGCCACT GTGACTAATG GTCCTAATAT TAAGCATGTT GTTTATATTT ATCATATATC 120
TATGGCTACA TGGTTATATT ATGCTGTGGT TGC GTTCGGT TTTATTTACA GTTGCNANTA 180
CAAATATTTG CTGTAACATT TGACTTCTAA GGT TTAGATG CCATTTAAGA ACTGAGATGG 240
ATAGCTTTTA AAGCATCTTT TACTTCTTAC CATTTTTTAA AAGTATGCAG CTAAATTCGA 300
AGCTTTTGGT CTATATTGTT AATTGCCATT GCTGTAAATC TAAAATGAA TGAATAAAAA 360
TGNTTTCATN NTAAT 375

SEQ ID NO:7145

LENGTH:513

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08382

SEQUENCE DESCRIPTION:

GATCTCGCTC CTTTGAGAGG TCCCATAAAA GCAAGCACCA TGGTGGCAGT CGCTCAGGAC 60
ATGGCAGGCA CAGGCGCTGA CTTTCTCTC CTTTGAGNCT GCATCAGTTC TTGGTNTTGC 120
CTATCTACAG TGTGATGTAT GGA CTCAATC AAAACATTA AACGCAAAC GATTNGGATT 180
TGATTTCTTG AAACCTCTA GGTCTCTAGA AACTGAGGA CAGTTTCTTT TGAAAAGAAC 240
TATGTTAATT TTTTGCACA TAAAATGCC CTAGCAGTAT CTAATTAATA ACCATGGTCA 300
GGTTCAATTG TACTTTATTA TAGTTGTGTA TTGTTTATTG CTATAAAGAC CTGGAGNGTG 360
AATTCTGTAA AAATGTATCT TATTTTATA CAGTTAAAAT TTGCAGACAC TGTTCTATTT 420
AAGNGGTTAT TTTGTTAAN TGGATGGGNG ATNCCTNTT AANCACTGGN TTGGNCTGGA 480
TNGTGTAAGG TTTTNCAGG GNNTAGTTCC TGN 513

SEQ ID NO:7146

02032

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08383

SEQUENCE DESCRIPTION:

GATCTGAGAA TCTTTATTGA GAAAGAGCAC TTAAGAGAAT ATTTAAGTA TTGCATCTGT 60
ATAAGTAAGA AAATATTTTG TCTAAATGC CTCAGTGTAT TTGTATTTT TTGCAAGTGA 120
AGGTTTACAA TTTACAAAGT GTGTATTAAA AAAAACAAAA AGAACAAAAA AATCTGCAAA 180

SEQ ID NO:7147

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08384

SEQUENCE DESCRIPTION:

GATCAAGAAA CTGGAAAATG TGAAGCAATC TCTATTGAGA TAGCATCTTA GTGTTTTAGA 60
GAAATCAAGA ATTTTAAAA ACAAGAATAT CAACATTTGG TTTTGTGTAT AAGTGGTGTT 120
TGTATTAAAA TACTTTTCA ATGAACTGTA TAAACTATGT TTTATTAAAC TACAATATAT 180
CAGTAAA 187

SEQ ID NO:7148

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08385

SEQUENCE DESCRIPTION:

GATCCAGAGG CGAGAAGCCA CCCTGTTAGA NCTCCTGTCC ATCATCCAGG TAAGTCAACT 60
CTCTCCTTTC AGGGCCAATC CCCAGACCTT TTGTTGAGCC AGGNCNNTAT CACCTNTCCT 120
ACTNACTTAA AGN 133

SEQ ID NO:7149

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08386

SEQUENCE DESCRIPTION:

GATCCTTGTC AAAATGAGAT TCCAGGTCCT AGAGAGCTGC TTNAGGGAG TTCCAGGAGT 60
ACTTACTATT GGTCATGCAA TAGGAGAACA GAGACCCGNG GGCTGCTTTG GGGGAGGGGG 120
GAACTCGAGA ATGTATGGAT TTACCTGAAA ACAAATTATT CATTTAATCA AA 172

SEQ ID NO:7150

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08387

SEQUENCE DESCRIPTION:

GATCACCATT CAATTTGAGT TTCCAGGGGG AAGTGCATGT ATAATGAAAT GATAATGGAC 60
 TTCAATGAAG AATGTCATCA ATTATGTACA TATGTATTTN CTTTAAATAC AAAGTGTAAT 120
 TTTGTGCCAG TGAAATGGAG TCTGAATAGT TATGTGTTTC TTTTATCCCT GGAAATATTT 180
 ATTAAACTTT ATAGTTTATC CGAGTATGTT GTATGCTTTG ACAATAAATG ACTATTTTCT 240
 TCAAAGCAAA 250

SEQ ID NO:7151

LENGTH:282

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08388

SEQUENCE DESCRIPTION:

GATCATCACC ACCACGGTTC CTGAGGACAT CATGTCCAAC CGAGGCAATN ACCTCCTGCT 60
 GAAGCTCCTG CAGNATCGGT ATCCCCGGGT GATGGCAGAG GAGGGTCTTC GAGTGGTGAG 120
 GCAGTGGTTG GAGGCCTCCT CACAGCTGGA GGAAGCCTCA NTTTATAGCC GATGGGAGGT 180
 GGAAGAGGAC TGGTGTCTGT NTGTCCTCCG CTCCTACCAG GCAGAACACG GGCCCCGACTT 240
 CCCCTGGAGC GTGGGGGAGG ACATGAGTGC AGATGGACGG TN 282

SEQ ID NO:7152

LENGTH:391

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08389

SEQUENCE DESCRIPTION:

GATCAAAGTA GAAGCNTTTG AATAATGAAT TTAAGGCCAC GCAAAANCTT TCCTCACCTA 60
 TTGACATGAC ATCTAAAAGA CATTTCGAAC TCGAAAAGCA TAGTGCCCCA AGTATGGTAC 120
 ATTCTNCTCT NACTCCTTTC TCAGTGCAAG TANCTAACAT TCAAGATTGG NCTCTCAAAT 180
 CGGAGCACTG GCATCAAAAA GANCTGAGTG GCAAAANCTCA GAATAGTTTC AAAACTGGAG 240
 TTGTTGAAAT GAAAGACAGT GGCTACAAAG TTTCTGACCC AGAGAACTTG TATTTGACGC 300
 AGGGGNTAGC AAACCTATCT GCAGNGGTTG TCTCACTCAA GAGNCTNTA GNCACACAAC 360
 CAGTCTCTGT TTCAGACTCT GGGTAANTTN N 391

SEQ ID NO:7153

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08390

SEQUENCE DESCRIPTION:

GATCTAAAAA TAATTCTTAA TCATGAATTT AATTCACGAC TTCCTTGTTT TCAGTCTTAT 60
 TCAGCTTACT GTAGGAGATT TTAATANACT AAAGCTTTTG TTGATTTATG AGTTAGAAA 119

SEQ ID NO:7154

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08391

SEQUENCE DESCRIPTION:

GATCTTGAC CAAGCCAACG GGTNTCCTGG CTCTCCTGCC CACAGGATGA ACATTTTCGG 60
CTTCCTTAGG AGTTTGGCC TACCGTATTC CAAAGCGTGT GCTGGTTTCT CATATTGTCT 120
GTAGGCTCAC TCAGCCCGCA GTTTATGTGT GTGCTTTTTT CTATGAAAAA TGATGTATTT 180
TGCTACTTCC TGTGTACAAA GTTTTATTGT AAATGTTTTT TGTGCTTGC ATGAACAGGG 240
GCCACGTTGT TGCAATTGTT TCAGTAGAAC TGGTTTGATT TCTN 284

SEQ ID NO:7155

LENGTH:289

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08392

SEQUENCE DESCRIPTION:

GATCGAGACC ATCCTGGCTA ACACAGTGAA CCCCCTCTCT ACTAAAAATA TAAAAATTA 60
GTCGGGCATG GTGGCGGGCG CCTGTAGTCC CAACTACTCG GGAGACTGAG GCAGAAGAAT 120
GGCGTGAAC CAGGAGGCGG ANTTGCAGTG AGCCAAGGCG ACAGAGCAGG ACTCTGTCTC 180
AAAAAATAAA AAATAGTGCA CTGTCCTTCG AGAAAGTTTT CTAACATCTA GTAATTTGTA 240
ACTTAGAAGT GGAGTTGCCT TGTGGATGTC TTTTTGTCAT TCTGTAGGN 289

SEQ ID NO:7156

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08393

SEQUENCE DESCRIPTION:

GATCCAACTG CAGAGATGGC AGCTGAGTCA TTGCCAGTNT CCTTCGGGAC ACTGTCCAGC 60
TGGGAGCTGG AAGCCTGGTA TGAGGACCTG CAAGAGGTCC TGTNTTCAGA TGAAAATGGG 120
GGTACCTATG TTTCACCTCC TGGAAATNAA GAGGANGNNT CAAAAATCTT CACCACTCTT 180
GACCCTGCTT NTTTGGCTTG GCTGACTGAG GAGGAGCCAG NACCAGCAGA GGTCACAAGC 240
ACCTCCAGAG GCCCTCACTC TCCAGATTCC AGTCAGGGCT CCCTGGCTCA TGN 293

SEQ ID NO:7157

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08394

SEQUENCE DESCRIPTION:

GATCACGATG TAAATAATNA AGCATTTTGG TAGGATGTCT ANNGTAATAA ACAATTTTGG 60
TACCATAAA 69

SEQ ID NO:7158

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08395

SEQUENCE DESCRIPTION:

GATCTTGGCC TCCCAAACCC CTTATTTTAA AAATACTTTG CGCCTTGCTT TGATAATTTG 60
TATTATGTAT CCAAACCTGAA ATNATCTGCT TTCTGCATTA GAATGTAAGC CCCCTGAGGG 120
TTGAGTCAGT CTGTCTTGTT TGCTGTGCCA CGCCTGATGC CCAGCCCAGC AGCATGCTTT 180
GTACACTGAT ATATTGGGTA AATTTTGTTG AATAAATTAA GCTCAACTAT TTGTATTTCA 240
ATAGNTTGAG TTGTATTGCT TCCTGTTCTT CAAGCTTAAA TTTGACCTGT CTAATAAAAA 300
GGAGNAATTA AA 312

SEQ ID NO:7159

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08396

SEQUENCE DESCRIPTION:

GATCTTTTGT GGTCTGTAA AAGATACTGA GGAATGTNTT TCAGCCAAGC CAAGAGGATG 60
GTTTCAATAA ACCTAATAAT CTGAAGTTCA AA 92

SEQ ID NO:7160

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08397

SEQUENCE DESCRIPTION:

GATCTTGCAA TATATACTCA GGAAATTACC ATGGGCAGAA TAAAATGCTT TAAAAAATAA 60
A 61

SEQ ID NO:7161

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08398

SEQUENCE DESCRIPTION:

GATCCAAACT GNAGAACTTC TCATTCATCC CCAAGGCCTC CAGGCAGTAT CCAATGGGGA 60
ATCAGCTCTA AAAGGAACCA GACCAACGTT TTCCAGCCCC TTNATTCTGC TTCCNTCTGT 120
NTNAGGAAAG GNTAGAAATN TTCAGGGCAT CATCATACAG GCTCCTCATC TACAAAGTTC 180
CAGTAGCAGT GACGCCTACA CGGAAGANTT GGAACGTCAA ACAGGCTGGG GTCACCTCAN 240
TNGCATCTGA CGCTGTCCAA CCAGAAGTTC GATTTTNTN CTGGGGGTGA AGGTGGAAC 300
AGACTGTACT TAAAGGNTN 319

SEQ ID NO:7162

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

02036

CLONE:HUMGS08399

SEQUENCE DESCRIPTION:

GATCCANAAA TAAGTTTAAC TTACGGAGGC TTCTAGTTCT AAAGATGCAA NGTAAGATGC 60
CAAAGCAGTG GAAAGATTGA AGTCAAACAG TCGGGCCCAT GTGTGTGTCN TACNTCAACC 120
NTTNGTGTGT TATN 134

SEQ ID NO:7163

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08400

SEQUENCE DESCRIPTION:

GATCTATGTG TCTGTNTGTG TGTCCATCCC GCCGACCCCC CAGACTAACC TCCAGGCATG 60
GACTGAATCT GGTTCCTCCTC TTGTACACCC CTCAACCCTA TGCAGCCTGG AGTGGGCATC 120
AATAAAATGA ACTGTCGACT GAACAAA 147

SEQ ID NO:7164

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08402

SEQUENCE DESCRIPTION:

GATCTAGNAA CTAGNAAATA CTATTTGTCC CAGCAATCCC ATTACTGGGT ATATACCCAA 60
AGGAATATAA ACCATTTAAT TATAAAGATA CATGCAGATT TTTATTCATT GCAGCACTCT 120
NNACAATAGC AAAGACACAA TAGCAAATGC CCATCAAAGA TAGACTGGAT AAAGAAAATG 180
TGGTACATAT ACACCATGGA ATACTGTGCA GTGCAGCCAT TACAGCTTTT GGTGATACAG 240
TGAATCAGAT TTTNNATTAA TTCTTTTAAT TGGTTATTAC TGNNCGTGGA NNAGTAATGG 300
TTTGTATTGG NATCCTTGNN 320

SEQ ID NO:7165

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08403

SEQUENCE DESCRIPTION:

GATCCATATT TTAAATTGCA ACCCTGTTCC CTATGATACC TATCTGTCTA TGAATGAAAC 60
AAAGGTTTTA CAAA 74

SEQ ID NO:7166

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08404

SEQUENCE DESCRIPTION:

GATCCAAAGA ACTTCTGTTA TATGGGTTAT AGCTGTTAAT ATTTGTCATA TTCGAAATTG 60

AAATAAGATT TTAAGGTATT TTAATAAAC AGTNCAAAAC CATTGTATNT TGACATGAAT 120
AACACTTTTA TGAATAAAC TATATTCCAA AACAATAAAA TTACCAAAAA GTTGCAA 178

SEQ ID NO:7167

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08405

SEQUENCE DESCRIPTION:

GATCACAGAT TTCATCAGGA TTGAGCTGCG TGGTAAGCTC GCCACTCTGG ACAAGTCACA 60
GGGTACCCAT TATTTAGCAA TAAAAGCTTT AACTCAA 98

SEQ ID NO:7168

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08406

SEQUENCE DESCRIPTION:

GATCTCTGTG GCCTAGGTTT TGTACATACA GAAACTGCAT GGTATTTAAA TTATTGTTTG 60
TCTCTGATGA TGTATGCAGT TTCTTTAAAA ACAACCAAAA AAAAAGTAAA 110

SEQ ID NO:7169

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08407

SEQUENCE DESCRIPTION:

GATCCTGAAG AGCGCTGAGG GACGGGTGCT TCGNCGANCA GCACCAGCGA NACGTCAAAC 60
TCATGAGACA GATGCTAATG GATGCCGNCC TCCCTANTTG TCCACTGCCC CAGCCACATC 120
ATCCCTGTGC GGGTTGCAGA TGCTGCTAAA AACACAGAAG TCTGTGGATG AGCTAATGAG 180
CAGCCATAAC ATCTACGTGC AAGCAATCAN TTACCCTACG GTGCCCCGGG NAGAAGAGCT 240
CCTTCGGGNT TGCCNCNACC CTTNNGGGGG GACCCAGGA TTGNTGGAAC TAANTTCN 298

SEQ ID NO:7170

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08408

SEQUENCE DESCRIPTION:

GATCCACCCG CCTCGGCCTC CCAAAGTGCT GGGATTATAG GCGTGACCNC TGCACCCGGC 60
CAAAAGTTGA TTTTAAATTA CATAAAATC GTAAAACTT CTAGTAAAAA CTTGATTNNG 120
NGANTACAGT TATATTTTAA AACCTTAAGG TGACAAGCAT TTTCTATGCC TAAATCTTCA 180
TTGGTTTGCC TGGAAAGAGT CTCTGTAAAA AGATTTTCCA TATTCAAAGT AAAAGGAAAG 240
ATTTCTTGCT TTCTAATTGT CTTTGGACA CATGCCTATT TTCTTTGAGG TATAANCCTT 300
TAGATGTGAA ANATGTAATT TCCATTCNN 329

SEQ ID NO:7171

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08409

SEQUENCE DESCRIPTION:

GATCCAGATT TTTCTGTTG TGTCTGAAGA GAACCATGAC ATTTAGAAGT ATATTGGTAA 60
TCTATTAGGT CCATTGGCAA AGTATATTGG TCCATATTCA AACCTATTCC AAAAGGTTAG 120
AAGTGTTTAA GATTCCTTTA TTGTGGTACC ATGTCTGTTT ACCTATGCTT ATGAGCAACA 180
ATAANTTACT AGTTTACCTT CTGGAATTTT AAA 213

SEQ ID NO:7172

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08410

SEQUENCE DESCRIPTION:

GATCTGGTGG GCAGTCGAAC CATGGTGAAC TCCACCTCCG TGAATAAAC GGAGATTCAG 60
CGTGGGCGAC TGAATCCAGC ACGTCTGTGT GAGTANCGGG ACAGTAAACA CTCCACATNN 120
NNTCAGTTTT TCACTTCTAC CTACATATTT GTATGTTTNN NTGTATAACA GCCTTTTCCT 180
TCTGGTTCTA ACTGCTGTTA AAATTAATAT ATCATTATCT TTGCTGTTAT TGACAGCGAT 240
ATAATTTTAT TACATATGAT TAGAGGGATG AGACAGACAT TCNNCGGGNT ATTNCTTTTA 300
ATGGGCACAA AATGGGCCCT TGCCTCTAAN GN 332

SEQ ID NO:7173

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08411

SEQUENCE DESCRIPTION:

GATCCAGAGG CTCAGTGAAC CCCATCAACT TGGTGGCCCT GGTGTCTCAC ACTTGATATCC 60
TTCTGCCCTC GAGACCTGGC ACAGCAGTAT CCCTTGAAGA AATCCTGAGG CTTTGTAGAG 120
TGCTCCTTGA CCATGTTTAA TAATTCTTCC CTCCCCTGCT TGTNTATTTT TTTCTCTTCA 180
CGGCTCTTCC TATACCTTAG GCCAGTCTCA AGCACTCACT GGAGACCCTT GGGCCTTGGG 240
CGACCATTGA GTCCTAGTCT CCCTTGTTTG TGCCCCTGTA GGAGGTAGGT CCTTTTNTCC 300
TCCGGCCTAG TAGGGGACCT TGGGTAACAT TN 332

SEQ ID NO:7174

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08412

SEQUENCE DESCRIPTION:

GATCTGCTTT GCAGAGGAAA TAACTTGTTT TTTCTCATGT TTCATCTTCT TTTTATGTAA 60

ATATGTAATA CTTTCCTATA TTGCCCTTG AAATNTTTGG ATAAAAGATG ATGTTTTAAG 120
TTCCAAA 127

SEQ ID NO:7175

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08413

SEQUENCE DESCRIPTION:

GATCTGCCCCG CCTCAGCCTC CCATTGTTGA CCATTTTAT ATGTTTATTT ACCTATGTGG 60
TTTTCTTTTC TCATAAAATG CTTGTTTATA TATTNCCCC ATTTCTACTT ATCTNGTTCT 120
TATTAAATNG CCAAAGTGCA TAAA 144

SEQ ID NO:7176

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08414

SEQUENCE DESCRIPTION:

GATCATCTCT AAAATTAAAA AAATTAATAT TAAATGTTGG ACCAAGGATT TCAACCATGC 60
AGTATGTTGC TTCTGGGGTC TGCTGTCCTA TTCCAGCCCT AGTGAATAGT TAATGCCTTG 120
AACTATTCTC ATCACCACAG GTTGCCAGGC CACCAAATAA CGAAGCCAAT CCAGGATTTG 180
TCCATACAGA AAATGTGTGC GCTCCCAGCT AAATCTCAGT TAAGGAGGTT GTTCTATATA 240
CAGCCAAGTA GCAGAAATAT TCATAAATGT CATTTGCAA TATAATAAAC ANTGTAATGA 300
ATGGGTATTT CCTTTCTTGT TAATTCTATG TGCTCAATTA AAAGGNN 347

SEQ ID NO:7177

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08415

SEQUENCE DESCRIPTION:

GATCATACTA ATAATTTAAT ATTTGAATTG TATGGAAGTA CAATTCAGTA TCATTTTACA 60
TATGGTATAT TGTGATGCTG TATCATATTT TATGTTACGG TTTATAAGAA AAGCTCCTAG 120
GTATAAAATG CTACATAGCA GGAAGTTGGT TTTTCAATGT TATTATTTCC TACTGTTTTT 180
GACGTAACGG CAATAAAATT TGTTTGAACC AAA 213

SEQ ID NO:7178

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08416

SEQUENCE DESCRIPTION:

GATCTTAAGA AGAGAATAGA ATCTTTAATT GACCGGGACT ACATGGAAAG AGATAAAGAA 60
AATCCAAACC AGTACAATA TATTGCATAG AATGTTGGCC TTGCAGCATT TGGTGTGATA 120

TGCAGTAGCC AGTGGATAAA CTAACCTGTT GATTCAATAA A

161

SEQ ID NO:7179

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08417

SEQUENCE DESCRIPTION:

GATCATGTGC AATATTTCTT ACTGTGCCGA GAAGCCACAA TGAGCGAGAT TAAAGCTGTT 60
TAACACAAA 69

SEQ ID NO:7180

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08418

SEQUENCE DESCRIPTION:

GATCTCTGTT CCTTTTGGCT CTAATATGCT ACAACTGTAG GCCAATTATC ACTTTACCAA 60
TTAAGAGTTA GGCCAGATAA GTGAAATTTA ACTTAAGGGC ACACAGCTAA TAAGTAATAG 120
GCCTAAACTG GATTTCCCTTA TTCCAAATCC TGTCTTTTCC CCACTATTCC ATTAGACCCC 180
ACAAATGTTA GTTGTGTGTG TGTGTGTGTG TGTTTTTAAT CACTGTAACC GGGTGCATTT 240
TTTTAAGGCA AAATTTCTCC CTTATCTACT GTGATGACTT CAGAAGATAC ANTGGTCCCA 300
GGGGCCAAGT AGAAAGCATT TTAAAGNTT AATCTGAATT AAGCTGAN 348

SEQ ID NO:7181

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08419

SEQUENCE DESCRIPTION:

GATCCACTTC TGTAATTAAG TACNTGGTTG TCTCGTGATG CGTCTACAGT TATTTATAGT 60
TACAACCATT ACCNGNCACT GTAGATACAC ATATAAAAAT AGNTGTTNGG TATCCATAGT 120
TNCGCTTGTT CN 132

SEQ ID NO:7182

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08420

SEQUENCE DESCRIPTION:

GATCTCATCA CTGCACTCTA GCCTAGGTGA CGGAGCGAGA CCCTGCCGCT AAATAAATAA 60
ATAAATAAAT AACATAGTAG TGA AAA 85

SEQ ID NO:7183

LENGTH:224

02041

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08421

SEQUENCE DESCRIPTION:

GATCATGGAC TGGTGCCTTT GCATTGAGAA GGAGAGCTGT CAGCGTANAC CGAATTCAAG 60
ACCAAGGCGT GCTACCTGAG CTGACAGCTT TTTGAAAGCC GAGCTGTTTC TGAACCATGT 120
ACATACATGT TCTGAAACTT TCTCATCATT TTATGAGTAC TGTCATTGA GAGATGACAA 180
TGAAGATTAG ATGAAATTGG AAATAAACCA ACATTGTTTA CAAA 224

SEQ ID NO:7184

LENGTH:38

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08422

SEQUENCE DESCRIPTION:

GATCTCTGCA GTATTAAAAA GATGTACTCC CAATTAAA 38

SEQ ID NO:7185

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08423

SEQUENCE DESCRIPTION:

GATCTTTGGC AGTGCCAGCA GGTAAATTT TGACCTGCTC AATTAAAAAT AAACACTGGC 60
GTTTAAA 67

SEQ ID NO:7186

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08424

SEQUENCE DESCRIPTION:

GATCTTCAAA GAAGAGAATG TAATTTATAC CATGAATATG TTATTTTTTC ATGTTGGAGC 60
ACTGAAATAC TTTCAGTTG TTTTCTTATT GTTAAATAA AATTTTAAAT TCTTAAA 117

SEQ ID NO:7187

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08425

SEQUENCE DESCRIPTION:

GATCTTTGTT ATTTTAGGGG GGAAATCACA TGGTATCTAG CATGGGACAA AGCAGCAAAA 60
TAAACCAAAA GGACAATCTC TATTTTATAT AGAAAATAAA CATACTTNC TGCATCCTGT 120
GTACTTTAAG TATATCTATA TTTNTNANGG GTTCATACTG TGTTGANTTT NCCTNATGAN 180
ATAGTCACTT CCCAGTGTA TTTTAATGCA AATGCATATN CTATAANNTA N 231

SEQ ID NO:7188

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08426

SEQUENCE DESCRIPTION:

GATCTCTGTT CTAAGAAAAG GAGTGTGCCT TGCATTTAAA AGGAAATATT GGTTTCTAGG 60
GAAGGGAGGA GGCTAAATAA TTGATACGGA ATTTTCCTCT TTTGTCTTCT TTTTCTCAC 120
TTAAGAATCC GATACTGGAA GACTGATTTA GAAAAGTTTT TAACATGACA TTAAATGTGA 180
AATTTTAAAA ATTGAAA 197

SEQ ID NO:7189

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08427

SEQUENCE DESCRIPTION:

GATCAGGAGA CAGGGAGGCC CCGCACATCA CACAGATAAA GTCAGACAAT TGTAATTAAT 60
ACTTTTGCTG CCTCAAGTTG TTTTAAAT AAAGTACTTT GAAATGCATG AGAAA 115

SEQ ID NO:7190

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08428

SEQUENCE DESCRIPTION:

GATCCTTG TG GGCATTATTC TAACTGATAC GTAGACACTT ACTTGAAAAN NNNNGGACAT 60
TATATTAAAT GAGTGCTATC TGTGAAATTG GTTATATTAG GTGGCTTGAC TAATGTTTTT 120
CCTATAATTG TATATGGACT GCATTTTTAA AAAAAACCGC ATTTGCCTTT ATGCTAGATT 180
GTAAAAAATT ATATTAGAAT GCATAAGACA TGTTTTNCCN TCATATGCTA GACTTNCCT 240
AGCATTTTCGT ATTTCTGTGT TGTCAGTGTG TGATTTTNA ACCGGAATTT GGTTTAAAAA 300
AAATCTGGTG GTAATATATG TGAGAANTN 329

SEQ ID NO:7191

LENGTH:353

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08429

SEQUENCE DESCRIPTION:

GATCTTCATT CCAAATTTTA CTGCATGGAA ATGACTAATA ATGTGCATAA AAAGTTAACT 60
ATAAGGATGC TCACTGCAGG GTGGCTTATA TTAACACAAA TTCACAAACA ACTCCACTGT 120
TCCAGCACAG CAGTGTGTTGG TAAATCATGA CATGTTTCTA TGCTCAATTA CTATCCAACT 180
TTTGAGAATT AGGTTGGAGA TATGTAATTN CCAATATGAA AATAAATTTT CTATATNCTA 240
TTTAGTAAAA NTAATTCATA AATNTCCATT TTNCAAAACA CTTCATGAAT TTNTTCCAAA 300

ATACANATGT TATCTATCCA TTTNGGAATT AGGANTGGTT NNNATCATTT TGN

353

SEQ ID NO:7192

LENGTH:352

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08430

SEQUENCE DESCRIPTION:

GATCTCAGTT TTTCCATCAA AATTATAATA TGCTCATGAA AATAATATTA ATTTGCCTTC 60
CCTTTGCAAA CACCGGCAGT TGAAAGGAAA AGGACGGGGA ATGTGANNNN AAAGAGACCG 120
CCTGGAATAA ATGTCCCCCT ATGATTCTTT AAGGCAGTGG TTCTCGAGCT TGAATTTTCA 180
TTAGGAAATT CTGTGAGGNG NTTGTAACCA GATTTCTGGG TCTGCCACAT GCACCTATCT 240
NTNGCTGAAT TGCTTTAATA GAATAATGAG AGCAAGTTTG TCTAACTAAT ACCAACCTGN 300
CANCTTGAAT ANCAATAAAA TGCAATTTGG TACATAAATT ATAATGCTGC NN 352

SEQ ID NO:7193

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08431

SEQUENCE DESCRIPTION:

GATCCTGGAG AGGAGAAATC CTGGCCTCTG CTCATGCGCA GGTCACAACC GGGCTGGAAG 60
TGCGGTTNAG CTCTCTGCCA CTTTCTTCAA TGTA AAAAGT AGGCATCAAA GATACGACTT 120
CTACTATATA CATTTNTNTG TCCCTGAGAA CAGAGAAACG TAACCCTGTA GGGGACTGGT 180
TACAGAGGAC CTCCTGGAGC ATCTGCCCCA TTCCTCCAAG TCCAAGCACA GCCATGCTGA 240
GTGGAAGCNA GGCCACCATC TGAGTGGATT GGTCCCAAGT NTGTAATGAG GAAAGTGGCC 300
AGGTGCCGGC ACAGTGCCTC TCCCAGAGCC TCAAGAAGGG CCATTNGN 348

SEQ ID NO:7194

LENGTH:349

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08432

SEQUENCE DESCRIPTION:

GATCACAACT CTCAGTCTAC CTGGAACACC CCACCCAACA TGCCTGCTGC CTGGGGACAT 60
GCCAGTTTCA TCAGCTCTCC GCCCTACCTC ACAAGCACCC GAAGCTTGTN TCCAATGTCT 120
GGACTTTTTG GTTCCATCTG GGCCCCGCAA AGCGATGTGT ATGAAAATTG CTGCCCCATC 180
AACCCACCA CGGAACATTC GACCCACATG GAAAACCAAG CGGGTCGTGT GCAAGGAATA 240
CTACCCGGGG TTCAACCCGT TTCGCGCCTA TATGAACCTG GACATATGGA CTACCACAGC 300
GAATAGGAAT GCAAATTTCC CACTGTCTAG AGACTCGAGT TACTTGTNN 349

SEQ ID NO:7195

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

02044

CLONE:HUMGS08434

SEQUENCE DESCRIPTION:

GATCTGCCTG CCTCGGCCTC CCAAAGTGCT GGGATTACAG GCCTGAGCCA CTGCGCCCAG 60
ACCAAAAGTT TTTTAAATG GATGTTTAC AGATAGAACT AAATTCTTCA TTTACCTCAC 120
TTAATTTCTG AAAACACTGT GTCCTCCAAC TGCTCTGTAT TCCCAAAGAT TAAAATTAGC 180
CTTGGGGAGC AGAGCTGGTT CCTCGTAAAC CCCTGTGAGT GCCCAGACCC TTTGGAGGAG 240
GTTCTCAGTG GGCTTTTGCC TGCTCCCACA GATGTAACCC ACCCTTCCTG CTGCTCCTAA 300
GACCACCATG AGGAAGGCTG GGAATTGGCT CTTGAATTAA NN 342

SEQ ID NO:7196

LENGTH:364

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08435

SEQUENCE DESCRIPTION:

GATCTGCATT TNNAGGTTCC GAGCCTGACC CCTGGAAC TG ACCAGCGCTC GATTGTNAGC 60
CTTGGCCTGG GGTTTAAACC TTGCCAGTGA AGTTTCGGTT TTAAAGTGAT TAAATGTCAC 120
TTCTCATCA GTTTCACCTC TGGAGGTTTT CTTATCCTAC TCCCTGGTGC CAGGGACGTA 180
CCTGGGAGTT TGAATCAGGC CCATTTGAGC GTGGCAGCCG TGTTGGGTGA AGGTCCGGGG 240
CTCGGTGAGG CACTGGGGGG GTTTTCGGGA GGAAAATGAA AATGCTTCTA GAATGAGTGA 300
ACCACATCAT AGCTCTCACT GTTTTTTCAA TAGCTACTTT TTTTAGCAGA CAGCAGAGCC 360
ACAN 364

SEQ ID NO:7197

LENGTH:30

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08436

SEQUENCE DESCRIPTION:

GATCTCAAAA TAAATTCAGA AAGAAATAAA 30

SEQ ID NO:7198

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08437

SEQUENCE DESCRIPTION:

GATCTGCCTA GCCAACTTTC TTAACCCAAG CCCAACTGA AAGTCTAAAA GATGTATTTT 60
TGGGGAATTA CCCACCTCA ACATTCTCAG GTTNCAGT GTNCTCTGTC TGTNTCAGTA 120
TTTTAAAAAC ACTAACTCAA TAATNCTCAA AAATCAAAGT CTGCTTTNAT NATCTGGTAA 180
TAAAATAATA GGCAAA 196

SEQ ID NO:7199

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08438

SEQUENCE DESCRIPTION:

GATCCGCCCA TCTCCGTCTC CCAAAGTGCT GGGAATNACA GGCGTGACAN CCAAACCCGG 60
CCTGATTAAT GTTAAATAAT TACTAGTTCC CTTCTCGTCA AA 102

SEQ ID NO:7200

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08439

SEQUENCE DESCRIPTION:

GATCAGTGCA TTTAGACATC CAGAAGTTAC TTCCACTATT GAGGAACTAT GTAGACATGA 60
ATTTAAGCTT GTACATGTGC CAATCTTGTT AATGTCACCT GACCACTGAT TCACATAGAC 120
AGACATTAAC GTCTGATGCC TCAGGTTGAT GGCGAACTTN CTTCTAGTG TCTTAACATT 180
TATGANCTTA TGTTTGACTT GAGGGGCATT TCAGCAAAGC TGTGNAGGAA AAGTAGGTTC 240
TGGNCTGATG TCTGCTTTGT NCCATAGACA TTTGGAGCA TAAGGNAGTA TCTNCTTCTG 300
CTATATGTNC AGGGCTTGTC CCCAAATNAA TTCCTGATTT N 341

SEQ ID NO:7201

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08440

SEQUENCE DESCRIPTION:

GATCTNCTAC AGTTCCTNCA AGCCTAGACA ACCTAAGAAA CTTTACTATC AGCAGCTTAA 60
GATGAAAATC ACAGACTTTA AGAACAGGCG AAGTTTTAAN TGTATATNNN 110

SEQ ID NO:7202

LENGTH:45

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08441

SEQUENCE DESCRIPTION:

GATCCAAAGA AATAATCCAA AATAAAAAGT TATATCCAAG ATAAA 45

SEQ ID NO:7203

LENGTH:202

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08442

SEQUENCE DESCRIPTION:

GATCCACAGT GGAGTTTTAG TAATTATATT TTNTTGATTT CTTCATTTTG TTTTCTGGTA 60
TAAAAGTAGA GATAATGTGT AGTCACTTCT AATTTAGTGA AACCAATTGT AATAATTNTG 120
GAAATATTTT GTCTTTAAGT GTAAATATTT AAAAATTTGG CATACCCTAA TGTNAATAAT 180

AAAAAGAACT ATTTGCAGAA AA

202

SEQ ID NO:7204

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08443

SEQUENCE DESCRIPTION:

GATCGGAAAA CTCTGATTGA ACCATTCACT TTATTAGCCA GTAAACTTTC TCAACCCAG 60
AGCAAATCAA GCTTTCCTTT GCCTGGGAGG AAAANCATAG GGAAGTCTAA TTCTGAGAAC 120
TAAAAATCAG TAATTTCCAC AATTGTATGT TGAATAGTGA TTGCCTTTAN GNGNCTGTGN 180
NCATGGAGTA ATATTACTAT TAAAAATAGG CCATTTGTAT CTACCTTTGG TCCTTAGGAA 240
AATTCCTAAG GAAGTCAATT AATGCACTTT NAGATGTAA AAGTATTTGG GCTAAGGTAA 300
TTATTGCCTG ATATGGAAAT AATTATNNTT CTGNTTN 337

SEQ ID NO:7205

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08444

SEQUENCE DESCRIPTION:

GATCAGTGAC AATTTACAGG AATGTAGCAG CGATGGAATT CCCTGGAACA GTTTTTTGTT 60
TTNTTTTTTG TTTTGT TGTGGGGGGG GGCAACTAAA CAAACACAAA GTATTCTGTG 120
TCAGGTATTG GGCTGGACAG GGAAGTTGTG TGTGGGGTG GTTTTTTCT CTATTTTTT 180
GTTTGTCT TGTTTTNA TAATGTTTAC AATCTGCCTC AATCACTTTG TCTTTTANAA 240
NGNTCCACC TCCAGTCCN TCTCCTCCCC CCTACTCAGG CCCTTGAGGC TATAGGGGGT 300
TNCTTNGAGG ACCTCANCAA AATCCAATC CAAGTNAACC TTTTGCACAN N 351

SEQ ID NO:7206

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08445

SEQUENCE DESCRIPTION:

GATCTATTTT TTTAAAAGAT ATTTGTGCAG AAAGTGCATG TAACTCTAAG TTTTACTCCT 60
AACATACATA TGTTTGGGGA AGTATTCTAT TCTATACTTG CCAATGTGGA GAACAAAATA 120
GTTTTTTTAA GAATGAAGAA GTATATATAT CCATTCTGTA TTTTACGTGC AGCAGAATTA 180
TCTTCCGTAG GATTTTTTTG TGTATTCACA AGGTGATATT TGTATTGTAA AACAATAATG 240
GTGAAGGAAA TAAAAAGGCT TTTAAAATTT AAA 273

SEQ ID NO:7207

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08446

02047

SEQUENCE DESCRIPTION:

GATCAGATTT TAAAAAATG GATTTCTCAT ATAAATAATA TTATCAAAAA AGGATTTCTC 60
 ATATAAATAA TATTATCAAA AAAGCTGATT TAAAAAGTTT CTCCCAAAGT CTTATTCTAG 120
 TAATTATAGA GACCTAGGTA ATGAGTGGCA GATATATCTG CCTTTCAGAT ATGCCGTAAT 180
 GTGAAAAATA ACACAGTCAT GTGATATTCT TNATTAATAA AACTGTGTT GTTTTTATTT 240
 TGGAGTAGTT CTCATAATTC ATTGGTAGGG AACTATCCAG TATTTATATT CCTATGTATG 300
 TNTATCAGNT TAATTTTGAG GCTTGGAN 328

SEQ ID NO:7208

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08447

SEQUENCE DESCRIPTION:

GATCTGTACA TACAGTGTTA AGAATGTAGA TATTAAAATT GTTATATTTA GCTGTTACAT 60
 AATATTAAGA CTCAGAGTTA AGTAATTCA CTGAAATTGA TTGCTTTTGG TGTCTTGGAG 120
 TCAAAATAAA TAACTGAAAT CTAAT 145

SEQ ID NO:7209

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08448

SEQUENCE DESCRIPTION:

GATCTGTTNA CATAAGCACT AGTCACAGGA CTACTCGTGA ATTCATCAA TTTATTCTAT 60
 TGTGTTTATT CATGATATCA CCTTAGTAAT TTTGAAAAA AAAAANGTAC CACACTTGGC 120
 CAAANGCTCA TCAGGCTGAT TGTTTANCTG TNGCTGATTG CTTATCTTTA TATTGTATGA 180
 CCCNGGGGNT NGNTTTGAAN GTTATATTAG GTTTGAAATG ANTTATN 227

SEQ ID NO:7210

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08449

SEQUENCE DESCRIPTION:

GATCTTTGAA CTCTGCAATA TGAAGCATAT ATGTGAGTGC TTAGCTTTCA CTCTCTTTCT 60
 GTGTGTGTGT GTGTGTATAC AGATACTAAG ACACAGATAC ATTCACATAT ATACATCTAA 120
 ATATATATAC AGTACAGTCC ATATTCAGAT TTCTTCAAGG TTATGGGTCT ATTGTTTAAA 180
 TTCGGAATCC AGTCAAGGAC AACACATTAA AATTGATTGT TTTGCCTCTA CAGTGTGTTT 240
 TTTTGGTTTT CATGACATTG ACTTTGATTT GAATAGGTCA GACCATTTC A TGTACTTTAT 300
 ANAGGCACTT TGTAGATTTG TCTGATGATT TGN 333

SEQ ID NO:7211

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08450

SEQUENCE DESCRIPTION:

GATCAAGAGA GTTCGATTGG CCAAAGAACA GGAATCCCGG GCAGATTGTA TCAGTGAGTT 60
TATAGAATGG CAGTATAATG ACAATAACAC TTCTCATTGT TTAAACAAAA TGACCAATCT 120
GAAATTAGAG GATGCAAGGA GAGAAAAGAA A 151

SEQ ID NO:7212

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08451

SEQUENCE DESCRIPTION:

GATCTGACAG ACGTCAATAC CTGCAGGCGT CTACAGAGAG GAAATTTGAT AAAAATATTT 60
TAGTCACTGA CTACACTACC ATTATCTGAA GCATTCAGAT AAGACTTAGC AGAGAATGTC 120
AGATTTTGTT TTCAATTATA ATTTTAGAAA TGCAAAATCT TATTTTTTCT AAGTTGCTTA 180
TTGTCTATAT AAATGTTTTA TATCATTTAA AAACATGCAG AATAATACAC CTGCAGAATA 240
AAAGAGCTGA AATTAAAAATA TCTTTTTC AA TNA 275

SEQ ID NO:7213

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08452

SEQUENCE DESCRIPTION:

GATCACTTGA GTCCAGGAGT TTGGTGTTAC AGTGAGCTAT GATGGCACCA CTGCACTCCA 60
GCCTGGGCCA CAGAGTAAGA ACATGTCTTT AAGAAAAAAA AAN 103

SEQ ID NO:7214

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08453

SEQUENCE DESCRIPTION:

GATCTGTAGA CATGAAGGCA AAGCTCTTGT ATTTTTTTTT CATCCAAACA CCTCAATTTA 60
TTTTATAAAT TCGTTCATTT TTCCTGTTAT GTTTTATATA ATATATGGAC TAAACAAAAT 120
AAAATAACAG TGCAAAAGAG GAAA 144

SEQ ID NO:7215

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08454

SEQUENCE DESCRIPTION:

GATCAGAAGA GGATGACAAAT GGCAACAAGT GTTTGGAAGT TCCAAGGTGT GTTCAAAGAG 60

GCTTGCCTTG AGGGAGGGCT GGAATCTGTC TTCCCTGACT CGGCTCCTCA GGTCTTTAGC 120
CTCCACCTTG TCTAAGCTTT GGTCTATAAA GTGCGCTACA GAAA 164

SEQ ID NO:7216

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08455

SEQUENCE DESCRIPTION:

GATCTGAAGT CCCCCCAACC CTCTCCAAGT AAAGTAGTTT ATTAGAAGCT CTTAAGTCTT 60
TAATAGACCT GCATATTTCC TTCCCTTATG ATTTCTTATA AAATATAGTT TATGGTGTTA 120
TATTTTAAAC TGAAATACTG TACATATGTA AATAACTCTT GACAGGAAGA AAATATATTA 180
ATGTAGTATT TGCCCCCTAT CAGTGAGCTG AACAAATACA TCATTTAAAT CTATGCTGCA 240
CTTTGAGTTG CTACAAATAT GGTTTCGNTT GTTTATTTTT GAAAAATGTG ATAAAGAAAT 300
CTAAAGANTG NNNAANNNTAA NANNNNNNNG NN 332

SEQ ID NO:7217

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08456

SEQUENCE DESCRIPTION:

GATCTGTACC ATCCTGTTGC TGCTGTATGC GTTCCATTGA TGGGACATCT TCAGGGACTC 60
TTGACAGCCA CCGCTTTCAC ACCCTGGTCT GGAATAAGGA AACATCGGAG GGAGAAGTTG 120
ACTGTCTTGA TAATTAGCCT GACCAGCAGG ATGAATGCAA GACTGACAGT GATGGACTCT 180
GTGACATGGT CAGGTTGAGC TGAAGCCACA GTTCTCTGTG GCTGTGTTTT CTAACACATT 240
TTTCTGTTTT TAATTAAAAA AANNNNNNNA GGGTAAA 277

SEQ ID NO:7218

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08457

SEQUENCE DESCRIPTION:

GATCTTAAAC TCCTGACCTC AAGCAGTCTA CCCCCGTTGG CCTCCCAAAG TGCTGGGATT 60
ACAGGTGTGA GCCACTGCAC CCAGCCAAGT TTATGTATTT TNATTCTTTT TCATGAATGT 120
GATTTGTTAA ATNAGTGATT AAATATAATT TTNATATATT TGTATGACTT TNCTGTAAAT 180
AAAATTTAAA ATCAGAAA 198

SEQ ID NO:7219

LENGTH:409

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08458

SEQUENCE DESCRIPTION:

02050

GATCTGCATC TNACGCCAC TGCACACCGT TCCTCTCCAT CTGCCCTTCC CTCCCAGGCC 60
 CCCGGTCGGG GGAGCAGGTG TGGCAAGTGT TAGGAACTCC CTTCTGGTGA CAGCTGGTCT 120
 TCCTAGAGTG TTGCTGGTAA CTATCGCCTC TTGGTCTTCT GACATCATTG CCAGGAACGG 180
 GGCACTTTTT CGTCTTGTAG TTTGGCCCTC GGGTTTCCTC ACTAGGTATT GTGTAAGTCC 240
 CTCAAAAAAA GGTTCATGAA ATGCTGAACC TCAGGTTTCA TAGACGTCTT TGTACACTAA 300
 AAATTCTGCA GCAGGAATAT TTTTAAACAT TCGCAGTTTT TTGTAAGCTA TATTTTTTGG 360
 ATATTTAAAT TGCTATNTNA AAANTTTTAA ANTNAATTTTT GCTAATNNN 409

SEQ ID NO:7220

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08459

SEQUENCE DESCRIPTION:

GATCTCCTGT TCCGTTAGAA ATACGGTTAT GTTGACATTA TGGTTACTGT GCTTGTGGTT 60
 TTGCAATAAA CATGTATTGA AAGCAAA 87

SEQ ID NO:7221

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08460

SEQUENCE DESCRIPTION:

GATCAGATAA AATAACTCCT GACAGAACT GTNNGGAAAC CAGCTGAATG TTTGACCTGA 60
 TGACTGATGT TGTATGGTTT ATGTAAATG TATATTCTTT TAATCAATGA ATAAAGCATT 120
 AAAAATGAAA 130

SEQ ID NO:7222

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08461

SEQUENCE DESCRIPTION:

GATCAGAAAC ATTTACAATC TATTCTCTTT GAAGCCTGGC ACCTGGAGGC GTCATCTGTA 60
 TGAGANNNNN GGAATCCACA ACCTTTTATC ATAACCCAGA CATTCTTTC TATTGATAAT 120
 AACCAATTGC CAATCAGAAA AATTAAAAAT CTACTTATAA CCCAGAAGCA CTACCCCGCA 180
 ACCCTTGCTT GCTTCAAATT GTTCCAATT TCTGGACCGA ACCAATGTAT AGCTTAAATG 240
 TATTGATTG N 251

SEQ ID NO:7223

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08462

SEQUENCE DESCRIPTION:

GATCGGTGCC ATGGCAAGCA CACCCTCAGT CATCATCCTC ATCAGGACAG NCAGCCNNGA 60
 ACTCAAGTCT TACGCTTTGG GAGTTCTTTT TCTCNCCTT CGTTTGTGG GCTTCATCCC 120
 NCCACCCCTC ATCTTCGGGG CTGGCATCGA CTCCACCTGC CTGTTCTGGA GCACGNNNTG 180
 TGGGNGAGN 189

SEQ ID NO:7224

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08463

SEQUENCE DESCRIPTION:

GATCTGATT GGCCTGGGAC CAGTGTTCAG GTTGGTTTGG TCTTTATTAA AAATCACAAT 60
 ATTCCGAAAA CAAAAAACC TAGGAGATAA ATGTAAA 97

SEQ ID NO:7225

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08464

SEQUENCE DESCRIPTION:

GATCTGAAAT NAGAGGTTTT GGTTTACCCT ATCTATGGTA TGTCTTAAAA ATCAACGAAG 60
 ATGTCCTTGT CTTTTTTNAA TTTNCCGAGT GTGTTGCAGT TCCACAGCTC ACTGTTAGGT 120
 GGCACATACC CCAAACCTGAA AACCTGACCT CGTAGGGCAT GAGTCAAAAG ACAGGTAGGC 180
 ACAGGACAGG GCAGTGGTGA CACTACAGCT TTCAGGGTTC CCAGCCTGTC AAGAATGAGC 240
 ATGTCTTAGC AGGGN 255

SEQ ID NO:7226

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08465

SEQUENCE DESCRIPTION:

GATCAAATTT GGAAAACCTA ACATTGAGAC AATACTATAT TAAAGTATCT CTGGTACCCG 60
 AAA 63

SEQ ID NO:7227

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08466

SEQUENCE DESCRIPTION:

GATCCAGCAA TCTCACTGAG TATCTAACCA AAGGAAAATA AATCACTATA CCAAA 55

SEQ ID NO:7228

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08467

SEQUENCE DESCRIPTION:

GATCCAAGAA CCCTCTCTTG GGGTCTGAAT CATACCCCTT TCGGGTTACA GCCTATCACA 60
GCATTTTAA TCCTATGCAC TTAACACTTC TGTATAGAAA AAGAACATCA CACTAGAATT 120
TTGATGACAA TAGATGACAA TATGATGAAT NTTATTATAT GAAGTGTTAA ACTTATTAGA 180
GCAGATATGG TACTAAAAAT AAAATCCCAC CTNCNCTAAA 220

SEQ ID NO:7229

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08468

SEQUENCE DESCRIPTION:

GATCGCGCCA TTCCACTCCA GCCTACACGA CAGAGTGAGA CTCCATCTCG AAACAAAAAA 60
AAGACTTGAT TTTTATTTTC ACTATCTTGA GCATAAATTG TTCTAAGAGT GAAA 114

SEQ ID NO:7230

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08469

SEQUENCE DESCRIPTION:

GATCTTATAC AGAGAAGTAT TTTATTAAAA ATTCAAAAGG GAAGACTTTT ATGTGCTCAT 60
TTTGTAATTT TTAATTTTAA ATATCTTTAC ATTGTCTGCC AATTAAAGTG TTTTAACTT 120
GCATTGGAAT GGNCTCTGAA TGTATTTNTN TGGTGTNACG TTATCCGTAG ATTTCTAGCA 180
TGANGTTAGC CTCACGATGC TGTGCAAAGG ATTTTNAAT ATGAGAGTCA CTGANAGAGT 240
TTAANCATCT GTCCATGTTA AATGCTCTAT GGGN 274

SEQ ID NO:7231

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08470

SEQUENCE DESCRIPTION:

GATCCTTTGT TCACGGCTCT CCTTAATGAC TGAGTGAACA GTTCCTATCT GTATATTTGA 60
CTAAACCTTT TCCTAAGCTA TCTCTCATGG TTCCTATGTT TTTTATCAT AATTAAGG 120
AAAACCATCT GGAAA 135

SEQ ID NO:7232

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08471

SEQUENCE DESCRIPTION:

GATCGAGCGG AAAATTCCAG AACTGTACAA GCCAATATTC AGAGTTGAGA GTCAAAAGAG 60
 AACATTGTGC TGTCTGTCAG CATATGTATA TCAGCTACAA AATATATTCA ACTTTGACTT 120
 CTTTTGACAA AGGACTTTAG GAAAAAGAGG AACAAAGACA TTATTTGAGA ATTAAATTAT 180
 ATATTTTAAN TATGACTGTG ACCTTGACTG ATAATAAAGA TGTAATAAGA NTTGCAAA 238

SEQ ID NO:7233

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08472

SEQUENCE DESCRIPTION:

GATCAGTTCA GCCAAGCAAC TGACAAATCA AAAACCCACT TGTCAGTTCA GTAAAATAAT 60
 TTGGTCAGAA A 71

SEQ ID NO:7234

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08473

SEQUENCE DESCRIPTION:

GATCTAGAGG GCTTCGAGTG AAGCCAATCA TGTGGAACGA AACTGGGTTT AGTGATAGTG 60
 AANTAGAGTG AGGCGTATGC AGTCATAAAA TGAAGGGTGG ACAGGAGATT ACATTTGAAG 120
 AAAGGATAAG CACTCAGACT TGGTCTCTTT TAAATTAAAA TATTTCTTTT CTCATGTGCA 180
 AATGTATATC AAAGACTTGA ACAGGTATTC TCTTGAAATT TGAGGATTTT TAGTTTTTAA 240
 TGCTGNCTTT GCTTANNATT AANNATNGT NGCCTATTGG TTCCCAAATT GTNTGGGGNC 300
 CCTAANN GTT NCCCTNGAG GGGTNCATTT TTGAAGGNGG GTTANGN 347

SEQ ID NO:7235

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08474

SEQUENCE DESCRIPTION:

GATCTTGTGT TTTGCTATCC TTTTACTGT AAAATGTAAA TATTTTAAGG GATATTTTGA 60
 TTCTAAATAT GATAAAATAA TTTCTCACCT AAA 93

SEQ ID NO:7236

LENGTH:417

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08475

SEQUENCE DESCRIPTION:

GATCCCAATT CAACTTATCC AGAATAATTC TCTCCATTCT CAAAATTTCA NATGAGGAAC 60
 ATNNNNAGAA ACTGTCTCTT GCCAATACCT TTAGTACTGG AATTCTCTCA TCTTCCTCAA 120

CAGTCTTGGC AGCTAGGAAA AAACAGCTGA TTGCAATACA ACTCAAGTAT TTTGGATGAG 180
 CCTTTACGGT AGCTAAAAAC CCATCCAAAA GACTGCTAGC CAGAGCAAAT GTTTCTGGGT 240
 AAAGGTTGAA TTGGTACTTG AGTTTGGCCA GCCATTGANT TACTTCATCT CTCTGGGATG 300
 GNGAACATTC TGATTTGAAG GCATTTCCG CACATTCACT TTCCACATCT GTGNCTCCCT 360
 AGTGATTGCC TTTTCCACCA GGAANGCCAA TCTCTGGTTT TCCAAAGGCC CTNGGAN 417

SEQ ID NO:7237

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08476

SEQUENCE DESCRIPTION:

GATCAGACCC TCCTGTGGGC AGGGTTCTTA GTGGATGAGT TACTGGGAAG AATCAGAGAT 60
 AAAAACCAAC CCAAATCAAA 80

SEQ ID NO:7238

LENGTH:409

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08477

SEQUENCE DESCRIPTION:

GATCTGCCTG CCTCGGCCTC CCAAAGTGCT GGGATTACAG GCGTGAGCAT TTGCGCCTGG 60
 CCAGAAAAAT ACCTTTAAAA AGCTGGGCCT GTTGGTGAC CTAAAGGATA ATACAGATGT 120
 TCCTCTCAAC TTAGCATGGG GGTTGTGTCT CAATAAACCC ATTTTAAAGT TGAAANC GTT 180
 ATGTGGAAAA TGCATTTTAT TATACCTAAC CTACTAGACC TCGTAGTTTA GCCTCCCTTA 240
 CCCTACAGGT GCTCAGAACA CTTTNGNAGG CCCTACAGTT NGGGCAGTCA TCTAACACAA 300
 AACCTATTTT ATAGGTAAAA GTNGTTTGAA TATCTCAAAG NTAATTTATT TGAATGGTTN 360
 CCACTTGAAT NGCGGANTCN ANGTGTTTNN NAACNGTNT GGTNNANN 409

SEQ ID NO:7239

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08478

SEQUENCE DESCRIPTION:

GATCTCATAG ACTTAGTACA AAAAAAGGTG AAATGTCTTG ATATTTTGT ATATTGATTA 60
 TTGAAATAAC CTTTATGTT GGGCTAAATA CAAATATGTT ATTAAATNA ATTTAACAAC 120
 AAA 123

SEQ ID NO:7240

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08479

SEQUENCE DESCRIPTION:

GATCTGAGGG GGAGAGGGAC GGGTCGGGCC AGCTGGTCAG GAAGGGCCTT GAGGGCCTGC 60
 AGCCAAGAGT AGCAGTTTTT TCCCCGTCT TGTGTCTT GGTCCCTGGA CCACAGGGCA 120
 CACAGGCCTG GACACCATAA GGCTGGTGGG CTTTCAGAA TGTGTAGGG NNNNNAGT 180
 GGCAGGTTCC TGAATCTCGG TCAATATAGT AACCAGCAGG ACAAGAGGTT CAGGAGGAGC 240
 CCACATCAGA GGCTTCTAGG GCAAN 265

SEQ ID NO:7241

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08480

SEQUENCE DESCRIPTION:

GATCTCTTGA ATTGCCATCT GTCATCTAAG TCTAAGGCTT TATGCTTAAT GANTTGTGGT 60
 GTACTAGCTG GACTAGCTTC AGGAATGTCA GTGTGTTCTA CCATTAAGGT CAGATTGTCT 120
 ACTACATCGA GATGGTGGTT GTAGTTACAG CTACTTTTAG AAACATGTCT ATTTTTTAAA 180
 GACATAACAC ATGAATGAAG AAATTCAGAA TTTGGAAAAA AGGTCCGTAA TGCCTGACAA 240
 AGAAAAATGT TCTCTGAGG GTCTN 265

SEQ ID NO:7242

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08481

SEQUENCE DESCRIPTION:

GATCCCAGCA CCTTCACATC TTCAGCAACC CAGNNGNTCA AATTTGACCT GGTGTTATTT 60
 TAGCCCCAAA TTTATGACAT TACACAATAT TAAAATGTAA ATGTTTCTTC ACCCAAATA 120
 CTTCTAGATA TNCTNGNN 138

SEQ ID NO:7243

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08482

SEQUENCE DESCRIPTION:

GATCCTTTGA GAGATGGTTT GACTTTCCCC GAGCAAAGAG CCTGCGTTGA AAAGCGGGGG 60
 TGGAATTCAG TCCTCACAGA TAATGAGGGG ACAANACCTA ATTGANCCGN GTATTGCCGG 120
 GAAGGAAAAG GCAACGGGCC AAGCCTTTGA CAGGGTGCGA AACTGACTTT NATCATCGTT 180
 ATAGTCTTTA AATCCTGGGA AACGAGTTGG CAACCCCAA ATAAAGAAGT GTAATGACGT 240
 CTGATGACTT CACCCAAATA CAGACCATTC CAN 273

SEQ ID NO:7244

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08483

SEQUENCE DESCRIPTION:

GATCTATAAA ACAGACAGAG ATAAGTACAA CAGAATATCT CGGGAATGGA CTCAGAAGTA 60
TGCCATGTGA TGCTACCTTA AAGTCAGAAT AACCTGCATT ATAGCTGGAA TAAACTTTAA 120
ATTACTGTTA AA 132

SEQ ID NO:7245

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08484

SEQUENCE DESCRIPTION:

GATCCGCCTG CTTCAGCCTC CCAAAGTGCT GGGATTAGAG GCGTGAGCAT TCATGTCCAG 60
CCAGCACTGT GCTGTTTTTG ACATGCATGT TCTCATTCAN TGCCATGCGG CAGATTCTAG 120
GATTATNATT ATNCTCACTT TACAGATGAG GGAGTGAGAC TTAAAGGGGT TAGGTAATTT 180
GCCCACATCC CCCAACTAGC AAATGGTAGA GCCAGGATTG GAATTTGTTT AGGCTCTTAA 240
CCATTGCACT CTTTCAAAAT GTTAAAAATA ATGTTGTGTC TCATTTTAAA AAATTAAATA 300
AAANCTCTTT GGACCAAGAA A 321

SEQ ID NO:7246

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08485

SEQUENCE DESCRIPTION:

GATCTCCCCA TTTGGAGACA GAGCCATTTG GATATTTNCC CCTTNAACTT CTCCANNNCC 60
TGAAGCGTTC CTTCCCTGGA GGAACCTCTT GGTGTCAGGG CTAACCTN 108

SEQ ID NO:7247

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08486

SEQUENCE DESCRIPTION:

GATCTCAGCT CAAATATTCC TTATGCAGAG ATGCCTTCCC CTGATTCCCT AAACCTAGACT 60
CGGACCCCTC TGTTCTGCAT CTCTGTGGCA TATCATCTGC CCCTTTTGTA AAACCTATAA 120
ACTTGTGGTT ACTTGTA 139

SEQ ID NO:7248

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08487

SEQUENCE DESCRIPTION:

GATCATGTGA GCTCAGGAGT TCGAGACCAG CCTGGGCAAC ACAGCAAGAC CCTGTCTCTA 60
TTTTATTCTA TGTTTTAAAA TTAAAAAATT AAAAAGAAAA AAGAATAACA TTTTATAAGA 120

AAATATTTTA TGAGAGACTT ATAAAAGAGA CATTAAGAAT ATGAAGTAAT ATATTNCGTA 180
TTCCTTATCT CAATAATGCT GTAGGGAAAA ANCAATTGAA ATAAAAGCAG TAAATGAGTG 240
GAAA 244

SEQ ID NO:7249

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08488

SEQUENCE DESCRIPTION:

GATCTAACTT GCAGTGTATT TTCTAGGCTG GAAAGTGGAA AATNAAATAT ATTATAATCT 60
TAGGTTACAT AAAGTTTCTA AAGTTTCAA GAGTCTTGAT ACAAATCAG TTTATATTCT 120
GAAAATATTT ATAATAAAGT ATTCTAATTT CTAAA 155

SEQ ID NO:7250

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08489

SEQUENCE DESCRIPTION:

GATCGCACTG GAAGATTTTA TAAAAGAATT TTTGTGGGTC GGGGGGACAG TAAACTTCCT 60
GGGCCACGTG GGTCCCTCAG GAGTTTTTCA GGCAAA 96

SEQ ID NO:7251

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08490

SEQUENCE DESCRIPTION:

GATCTNATAT TGAACCTAT GCCAAATAGC GTGGCATGAG GCCAGAGAAC AGTGCTTNCC 60
TTCCCCGNCT CCACCCAAAT TGTCCCTTGC TCTNGATATT ATGCCAGTNC CATATTTN 118

SEQ ID NO:7252

LENGTH:391

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08491

SEQUENCE DESCRIPTION:

GATCTGGAAT CTATTTGGNT TTTNTTTTCA ACTTTTCATT TGGATGTTTG GCGTTGCACA 60
CACACATCCA CCGGTGGAAG AGACGCCCGG TGAAAACACC TGTTTGCTTT CTAAGCCAGT 120
GAGGTTGAGG TGAGAGGTTT GCCAGAGTTT GTNTACCTCT GGGTATCCCT TTGTNTGGGA 180
TAAAAAAAAT CAAACCAGAA GGCGGGATGG AATGGATGCA CCGCAAATAA TGCATTTCCCT 240
GAGTTTNCCT GTTAAAAAAA ANTTTTTTTA AGTAAGAAAA AAAAAGGTAA TANCATGGCC 300
AATTTGTTAC ATAAAATGNC TTTCTGTGTA TANNTTATTC CTAAANATC CTGTTTATAT 360
AANNNTTCAG TAGNTGGAGA AACTTTCCAT N 391

SEQ ID NO:7253

LENGTH:385

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08492

SEQUENCE DESCRIPTION:

GATCATGAAT CTCTAATAAA TTAAATCTC TTAAACCAGT AGGTGCTTAA TATTTTAA 60
TTTGATTAAT GCCCATTTAA ATCTCATGGG TTCTATTTAA AATATATATA TATAGGGCCC 120
CAATCCATTG CCATCAAATT GCCCTGGAC TTTTCCAAGG TATATTATGG GGTTTTATGC 180
AAAATTCCAA GCTACCATGT AACTTTTTTN AACCATTTAA CAAGGAGGGG GAACTGTTTC 240
CTACCTTCTT TACATGTTGT GCATTGTTGT GGTCCAGAAA TGCCAAACCT TTTTAAAGAT 300
GGTGCAACTT TGAGTCCTTG GCTTGACTAT ACAGGNCTTG AACTTCATGG CATATCAACT 360
TTGNCATATC TGCAGGTGNG CTGTN 385

SEQ ID NO:7254

LENGTH:414

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08493

SEQUENCE DESCRIPTION:

GATCACCATT TTTTCCAGG CTTTCTGCCT CCNAGATGTG GCACCATAGT GCGGTGCCCT 60
GTGGCTTAC CGCCCTACTT CCACCTCCGC CCAGCCTGTA ATGTTTATAT AAGCAGCCTC 120
AAGGACCAAG AACCATCTGC GAAAGGACAC ACACAGGAAA TTCATAAAAG AAATCTGANT 180
GGNTAAAACC ATGAAAAAAA GTATGCTTCA TTAGTAATTA AAGAAAGGCA AATAGAGCTG 240
GAAGCNTTTT NCCNTTNGCA AACCATAACA GAAAANNNTA NGACCCAATA TTGGCAAAGA 300
GACTACTGAA AANCCATTCC CATACATTGC GTGTGGGNGT ATACATCGGT GCAGGCTTCC 360
TGGATGACAG TTGGGTGATA TGTGTCATGT GGCCTAANAG CCTCCATGTC ANTN 414

SEQ ID NO:7255

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08494

SEQUENCE DESCRIPTION:

GATCCTGGTT TTGTGATTGA CAATATTTCA TGCTCTGTAG TGAGAGGAGA TTTCCGAAAC 60
TCTGTTGCTA GTTCATTCTG CAGCAAATAA TTATNATGTC TGATGTTGAC TCATTGCAGT 120
TTAAACATTT CTNCTTGTTT GCATCTTAGT AGAAATGGAA AATAACCACT CCTGGTCGTC 180
TTTTCATAAA TTNCAATATT TTTGAAA 207

SEQ ID NO:7256

LENGTH:412

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08495

SEQUENCE DESCRIPTION:

GATCAAGAGT ACACTTCCTG GCAGTGATTA AGGAGTGTGT ATCTAACAGA AAAAAATATAT 60
 ATACCCTGTG AACCCGAATA TGGAATTCAG ATTGTTTCTG CCCTCAGTAT CATACTTAAA 120
 AAACAAGCAT ACAAACAAAC ATAAGGGAAC AAACAGCAAC CATAACAAAA ACAAACCTTT 180
 AAAGGTGGGT TTTTGCTGTG ATAAATGAAT ACGGTACTCT GAAGGAGAAA AAAGTTTCTC 240
 AAATGAGCTT AAAGTGAAG TGATTTAAAA NTTAGAGAAT ATAATTCTTA ANGCTATTGA 300
 AAGTTTCAAC CAGAAANCCT CANGTGAATT TTGTATGTAA ATGGCATCTT GNNTGTAAGT 360
 TCTGTGNTTC TTTAGGCAAC CAATTAGCTG GAACCTTGGT TTTGTGTGGT TN 412

SEQ ID NO:7257

LENGTH:406

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08496

SEQUENCE DESCRIPTION:

GATCTGCAAA TCAAGCTACA TGTATTTGTG TATAAGACCC TGTGTTTCAGG ACTGGGTGAC 60
 TTTTCTAAGA AATATGGGGT TTAGAATGGG GTTGACTGTA TTTNTAAACC TAATTCTGGA 120
 GAGAAGATTG TATTNTAAC AGTTTTTTGG GTTTGGCTTC CTTCTCACAT TTCTTTAGCT 180
 TTGAATTTT ACTAAATAAA TTTCTCCTG ATTAATTTT TTTTCCCCA TCTGGGAATT 240
 TGAAATCTCG GTGCTTACTG TNACACCAAT TTGTCCAANG GGTTGAAATC ACTTTAATGC 300
 CAGACCATGG TAATTTGCAG CCATTTTCAGG CAGGTGGTGG NCCTTTTNA TACCATCGTT 360
 ACGGGGTCCC NTTAAATATT CTGGGGGGTG ATGTAAATNT AACGGN 406

SEQ ID NO:7258

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08497

SEQUENCE DESCRIPTION:

GATCTCCATT TCCGCCAGCT GCCTGTAGCC ACGTGGCATC CTGCCTGTGG TCTGGGTGAG 60
 ATTTACTGTG ACCAGATGTA GAATAAATGT GTCTCATCCT GCATTTTTTT TCTAAA 116

SEQ ID NO:7259

LENGTH:435

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08498

SEQUENCE DESCRIPTION:

GATCACTTTT TAGTTAGTTT GAAACCTGCT TTTAGTTTAT ATGTAGTATT TCTACATATT 60
 GTTACTTAAA TTGAACCTAA AATTTACTTT TNAATTTTNC TTCTTCCTTT TAAAAAAGA 120
 GTATATAATC TGACAATGTT AGTACATCTT TTAGAAGGTC ACTATAAAGT TGCTTTCCCT 180
 ATTTATTTGG AAAGGATTAT TTCCTTATNA TTTTAAAAA TCTTTTAATT NNTGTCTTNT 240
 CAAGTAATTT TATCATTGTA CCAAGCCTAA GGATGAGTGG CAATTTAAAA GNCACAAGGT 300
 GTGCATCTTC TATCTGCAAA TACTCCAAAC AGAANTTATT CCAGTTTGTT GATACTTTGA 360
 GTGGCCCAGG GAAAATGTGT ATGGTTTTAG TGTNCTGAAT TGNCATTCCA AAGGGTGCGG 420

AAGGTTNCTG TTAAA

435

SEQ ID NO:7260

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08499

SEQUENCE DESCRIPTION:

GATCAAAAAA GGAATGGATA TACAAAGTGT TTTGTGAAAT AAAAGCTCCC TAAAATGGTA 60
AA 62

SEQ ID NO:7261

LENGTH:389

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08500

SEQUENCE DESCRIPTION:

GATCGACCA CTGCACTCCA GCCTGGGCGA CAGAACGAGA CCCTGTCTCC AAAGGAAAAA 60
CAAAAAAGAA GAATAAAATA ATTTGGATGA AAATCATGTT TATTTAAATA GTAATGTCAT 120
GAGACTATTA AAGATGTGCC AGAGTTTCAA TGAAAATCAT TAAAGTAGGA CAGCTAAGAA 180
ATTAATATTA ATATCAAANT TATTGATANT CTAAATTAT TGATTATTCC TTAACGCACT 240
CCATTCTCCT TTTACATTTT ATCATGTTTC TTTTGAATAT ATGANTTGGC AAAGGCCTTG 300
ATGAAACTGA GTACTAAGAT TTGGTCCAGN GTATGTCAGG ANGNCACCTC AGATTGCCAT 360
TTTAAATAAN GTTGTNCATG ACCAATAAA 389

SEQ ID NO:7262

LENGTH:302

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08501

SEQUENCE DESCRIPTION:

GATCCCGTGC TACATCTCCT CCCCGGACGA GTGCCTCTGG ATGGACTGGG TCACAGAGAA 60
GAACATCAAC GGGCACCAGG CCAAGTTCTT CGCCTGNATC AAGAGAAGTG ACGGCTCCTG 120
TGCGTGGTAC CGCGGCGCGN CGCCNCCCAA GCAGGAGTTT CTCGACATCG AGGACCCATA 180
AGCAGGCCTC CAACGCCCCT GTGGCCAAC TCAAAAAAAG CCTCCAAGGG TTTCGACTGG 240
TCCAGCTCTG ACATCCCTTC CTGGAAACAG CATGAATAAA AACTCATCC CATGGGTCCA 300
AA 302

SEQ ID NO:7263

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08502

SEQUENCE DESCRIPTION:

GATCGGAAGG TGGTGAATCT TTCCAGAGCA GCTGAAAATN TCAGCATGGA GACAGTAAGA 60

02061

AAAGAGACGG GGTGTGGATA AGACTCTGCC ACCGTGTCAC ACTAGCATAG GAGGCTGCAC 120
GTTCAATTGT TGTTGTTTTT TTTTCCTTTG CCAACCTCCG TTCTATTTAT GTGCAAGCAG 180
TTTGGATTCA AGTTCTTGTA TCTGTCTGTT CTGGGACCTG GGGATTGTNA GGGTTCCTC 240
ACAGCCAGCA CGACCCCAG AAAGAGGCGT CCCACAATAA ACACGTCACC TGCTAAA 297

SEQ ID NO:7264

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08503

SEQUENCE DESCRIPTION:

GATCAACAGT TCTATTACAG ATTAGAATGT TTCACTTCAC AGTTCTTTGT AAATCATGTC 60
AATTTTTATN ATAGNTGTCA ATTTGGGAAA ATCTGTATTA AAATTTTTAA ATGAAA 116

SEQ ID NO:7265

LENGTH:442

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08504

SEQUENCE DESCRIPTION:

GATCCCTAAT TGGCCAGGCC TGACCCTCTT GGACCTTTCT TCTTTGCCGA CAACCACTGC 60
CCAGCAGCCT CTGGGACCTC GGGGTCCCAG GGAACCCAGT CCAGCCTCCT GGCTGTTGAC 120
TTCCCATTCG TCTTGAGGCC ACCAATCAAA GAGATTCAAA GAGATTCCTG CAGGCCAGAG 180
GCGGAACACA CCTTTATGGC TGGGGCTCTC CGTGGTGTTT TGGACCCAGC CCCTGGAGAC 240
ANCATTCACT TTTACTGCTT TGTAAGTACT CGTGCTCTCC AACCTGTCTT CCTGAAAAAC 300
CAAGGCCNC TTCCCCACC TCTTCCATGG GGTGAGACTT GAGCAGAACA GGGGCTTCNC 360
AAGTTGCCAG AAAGACTGTC TGGGTGAGAA GCATGGCAGA GTTTTTCCCA GGACAGGTGT 420
TGACCAGGGC TTNTTGTTTA TN 442

SEQ ID NO:7266

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08505

SEQUENCE DESCRIPTION:

GATCTTCTGA CATTACTGCT GTCTGAGATT TGTATATGTG TAAATACAAG TTCCTTGATA 60
CCCTAAAACC TTGGATTAAA CAGAATGTGC ATTGTACATC TTAAACAAA ATGTATATTA 120
ATTTATTTAA TCTAGTTGTC ACTTTAAA 148

SEQ ID NO:7267

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08506

SEQUENCE DESCRIPTION:

02062

GATCTTAATT CTGTGTCTTA ACAGCAGGAG ATGAAATTCC CACATGGGAG ATGGCCTCCC 60
 TGTCACAGGA AGGAATANCA TTCTCCCTAT CAATNNGAG AAATTGGAAC TGNGAGAATT 120
 CTGTATAGAC CCTTGTTC AA GTAATTNTTC TAGTTTAAAN CNTCCCAAN 169

SEQ ID NO:7268

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08507

SEQUENCE DESCRIPTION:

GATCAAAGAG TCTCATCAA GCAAGTTCTT CCCTCCCTGG TCCCCTTTGG CTTTCTGAAA 60
 TNATTAATTA AAAGAAAGGC CCTAGGAAA 89

SEQ ID NO:7269

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08508

SEQUENCE DESCRIPTION:

GATCATTGNT TTATTTTGTA GTCCACCTTT CAATCACTTC ATGTATATAA AAAGGGACTT 60
 TGAATGTAAT AGTCTTCATC TTATTTATTG AAAAGATGTA CTAAAGGAAT GACTATTTTT 120
 AAAAAAANCT CTAGTATTTA TCAATATGAC TCTAAGGGAA AAATCAAGAA ANTTAGAGGA 180
 AGGTTCAANT TAGTAGTAAG GAATAGGANC NNNCATATNA NCTNN 225

SEQ ID NO:7270

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08509

SEQUENCE DESCRIPTION:

GATCTGTAGT GATGGAGTTC CTTCTGGTGT CAGCCCCACA GGAGGCTCCC AGGCCTCCCT 60
 CACTTCCCAT ACCCAGTCTA GGAGCTCCTT CTGGCTCCCA AGCACCAGGA GCTTTCCTCC 120
 GCCTTTNAGT TTTGGTTCCT CCACTGGAAT GTAGGCTCCT CACGGGCGAT GGCTGTCTTT 180
 TCTTGACTTT GTATCTTCAC TGCCAAGCAA AAAGTCTGCC AAGTGGGAAT NTTTAATAAA 240
 TATTCATTGA ATAATGAAA 259

SEQ ID NO:7271

LENGTH:357

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08510

SEQUENCE DESCRIPTION:

GATCCCAGAA GGAATGCTGA CCCCTCGTCG TATGACCTGT GCATAGTCTC CAGAGCTTCA 60
 AAGCAACAC AAGCTCGCAA CTCTAAGATT TTNTNAAACC AAAAAACCC TGGTTAGCCA 120
 TCTCATGCTC AGCCTTATCA CTTCCCTCCC TTTAGAAACT CTCTCCCTGC TGTATATNAA 180

AGGGAGCAGG TGGAGAGTCA TTTNCCTTCG TCCTGCATGT CTCTAACATT AATAGAAGGC 240
ATGGCTCCTG CTGCAACCGC TGTGAATGCT GCTGAGAACC TCCCTCTATG GGGATGGCTA 300
TTTNATTTTT GAGANGGAAA AAAAAAGTCA TGTATATATN CACATAANGG CATANAN 357

SEQ ID NO:7272

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08511

SEQUENCE DESCRIPTION:

GATCTAAATN AACAGCATTT TTTTCCTTAG CCTCTGTTTG CCACTCTGGG TATCTCTCCT 60
ATGGGCAAG CCATTAGAAA TGCATAAAAC CTCGAGACAT GGTTTTTGGC AAAAACTCCA 120
TGACTTTAAA CTAGCTCTTT NACTACTGAC CTTTCACAGA GAAAAAATAT TTCCCTTGAA 180
AAAAACTGGG CTGTGNATTT TTNCCCTTGT AGCTTTAAGC AGAGACATAA GTGCCTTGCA 240
TTACACATAG TAAACTTTCT TTAAA 265

SEQ ID NO:7273

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08512

SEQUENCE DESCRIPTION:

GATCTTCTCT TTTTTTGGGT TCATTTTGTT CTGGGTTTTG GTTTTCTTCA CAATCTTGAA 60
CATTTTACAG TAGAACTCAT CTAATAATGG ATTTGGGGAT GGGGAAACAT GCACAAAATC 120
TTTTCATAAT TAAAAGAGC CTTACTTTCT TTACATACCA CAAA 164

SEQ ID NO:7274

LENGTH:243

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08513

SEQUENCE DESCRIPTION:

GATCCGTTCC GTGGTCGCCC TGCACAACCT CATCAACAAC AAGATTGCCA ACCGGGATGC 60
AGAGANGAAA GAAGGGCAGG AGAAAGAAGA GAGCAAAAAG GATAGGAAAG AGGACAAGGA 120
GAAAGATAAA GATAAGGAAA AGAGTGATGT AAAGAAAGAG GAGAAAAAGG AGAAANAGTA 180
AAACATGTAT TAANTAGCTT TTTAATTTG TAANTTAANA TCTTACANAC TNGAANCNAN 240
NNN 243

SEQ ID NO:7275

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08514

SEQUENCE DESCRIPTION:

GATCACAGGC CTTGAGAGAG NAGAATAAGA CACTCTTGGG GACAGAAAGT TAAAACACCG 60

TGTGTCCTCA CTTATATGTG GGCCTAAAA AAGTTGATGT CATAGAAGTA TAAAGTAGAA 120
CAGAGGATAT GGAAGGTGG GAAGGGTAGG GGAAGGGAA GGATAGGGAG AGGTTTGTTA 180
AAGGATACAA AATTACCACT CGATAGGAGG AGTAAGTNCT AAGTNCTAGT ATTCTATACC 240
ACTGTAGGAT GACTATAGTT AACAN 265

SEQ ID NO:7276

LENGTH:261

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08515

SEQUENCE DESCRIPTION:

GATCGCCCGC ATTCCGGAGC CTTCAAGTAA ACGGCGCGCC CCACGAGACC CCGGCTTCCT 60
TTCCAAGCC TCGGGCGTC TGTGTGCGCT CTGTGGATGC CAGGGCCGAC CAGAGGAGCC 120
TTTTTAAAGN ACATGTTTTT ATACAAAATA AGAACAAGGA TTTTAATTTT NTTAAGTATT 180
TATTTATGTA CTTTNATTTT ACACAGAAAC ACTGCCTTTT NATTTATATG TACTGTTTTA 240
TCTGGCCCCA GGTAGAAACT N 261

SEQ ID NO:7277

LENGTH:260

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08516

SEQUENCE DESCRIPTION:

GATCCACATC TAGTGAAATG TCAGTGTCAA AATATTATAG ATTATAGCTA AAATCCAGAT 60
TAATACTCAT TTGGGGTTTT TAATAGTGGA ACTTCATAGT AATACAAAAA GCAGATTGTC 120
TTCCTGTCTC CGCTGCTCCC ACAGTAGGTA TTGAACTGG TAAAANCAGT TTTTGTATAG 180
TGTGTGTATA TAAGANANNN TAGATACACA CATTCTTTTT CCTCAGTCAN CACATTGATT 240
GACCACTCTG GCAAAGATGN 260

SEQ ID NO:7278

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08517

SEQUENCE DESCRIPTION:

GATCCCACTC CACCCACCT CAACTTATTT AACTTCCTAA TTAAATCAGA CTGTTTGAAA 60

SEQ ID NO:7279

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08518

SEQUENCE DESCRIPTION:

GATCTGGAGA CTTAAAAAGA AAACAAAAAC AAATGGCAAG TTCACTTAA GGGTGGTTTG 60
CCCTTAAGAA GAAAGCTGTT GGGACAAAGA CACCGAGCCA TTATACCCAG AATAAAATA 120

02065

TACATTTATG CTGGATTTTA TTCAGACCAA ACTAAA

156

SEQ ID NO:7280

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08519

SEQUENCE DESCRIPTION:

GATCATTGTT TAGAATATTT CCGCCACCTT AGAAAGTTTT GTCATGCCTT TTTTTCAGT 60
CAGTCCCTCC CCTTCACTCA CTGCAAGACC ACCACTGTTG TGACTTTTAG CATCTAAATG 120
TAGCTTTGGA ATCATGTAGT ATGTACTCTC ATGTCTCTGA AATTCATCCA TGTGTGTGCA 180
TAATTCAGTA GTTCACTACT TTTTAATTTT TGATTAGTAT TTCATTGTAT GGGTGTACTG 240
TAATTTGTTT AACCATTACAC CTGCTGTTTA ATCTTTTGAG CTGTATGCAT TTGGCTATTA 300
TGAATAAAGC TGCTTTGAAC ATTCCTAAA 329

SEQ ID NO:7281

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08520

SEQUENCE DESCRIPTION:

GATCAGAGAA GACCCCTGAG ATGAATCAGG GCCCTGCCCT GNCCACCAAC TCTTTTCTAG 60
CAATCATGTC CTGCCCAGGC TGCAGGCTTC ATTAGGCTCC TGCTGTCCTC CATGATGTGA 120
CTAGCACAAG GTGTATATAT GTTTTGTACC TCTGCCGATG GCTGTACATA GTGTATGAAA 180
GTTATTTAAG CCCCATGTTG TACATTTCTG TTCCTAGATT GGATGTGTGT GTTCTAAGAA 240
GTTGTCATAA AAAAAACCTG AATGACCAAA 270

SEQ ID NO:7282

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08521

SEQUENCE DESCRIPTION:

GATCCAATTA TTAGAAAAGC ACTCTTAAGA GTGCAATGAA TGTGATTGTA AAACCTGAAA 60
GCAGCCTAGA TTTTACTATA TTTGTTATTG TTATCAATGG GGGTTTGTCA ACCTTAAAAA 120
TTATTTTNA TGTAAGATA CCTAGGAATT TCTAATAACT GTATTTGTTT TAATAAACTT 180
TGACTTTGCT GTAAA 195

SEQ ID NO:7283

LENGTH:386

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08522

SEQUENCE DESCRIPTION:

GATCTACCTC AGTTAAACAG TTGGGTGCTA TTAATAAGTC TGTCAAATTA AATTGGAAAA 60

02066

AGTAACCAAA CGGTGAGATA CAACTCCACA TGAAACTTGA AATTGTAATT TCCGTTTATT 120
 TAATGATATT TTNATTTATT TGTGCCTTTT ATGTTGAACC CCAATGCATT GAAAAANTTC 180
 AGTATGAAAC AGTACATATT TNATTATAT TACAGGTGGG AGAAAAGTCC AATTGGTCAT 240
 GGAATTTGAT AGACTTTTCC CCAGCCAAC TGTACAGTGT ATTATAATCC CGACTGCCCC 300
 CCTGTGAAAA GANAAAAAAA ATTGTCCANG GGCAATTTN CCATTNCNA ACCANTANNG 360
 NCCANNCTCC TTTAAAANGN GNGNNN 386

SEQ ID NO:7284

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08523

SEQUENCE DESCRIPTION:

GATCAGTTAG TAGGCTTTCG NTGTCTTCTC TTTCAATACA TGTACATCTT TACTGTTTGA 60
 AAAGTGTTAC AGCTGTCAA GAATCTTCAT GGACCTGAAG ATAATTTNTT GTGAAGTTGA 120
 ATGCAAGTNT ACTGTCATTC ATAGTGTTAA TATCAAANTA CCAGGAATNT TNACTTTTNC 180
 NACCTNN 187

SEQ ID NO:7285

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08524

SEQUENCE DESCRIPTION:

GATCTCAGAA ATTGTATCTN AGTTGGTATC AACCAAATGG AGTGACTTAG TGTACATGAA 60
 AGCGTAAAGA GGATGTNTGG CATTNNACT TTTGGCTTGT AAAGTACNGG CTN 113

SEQ ID NO:7286

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08525

SEQUENCE DESCRIPTION:

GATCAAAGAG TAAGCCACAC ACGGATAATC AGTTACTAGG GATGGAGGTG TGAGGGTTCA 60
 TTATATTATT CATTTTACTG TTGTATATGT TTGAAATNT CTATAATAAA AAGCTTTAAA 120

SEQ ID NO:7287

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08526

SEQUENCE DESCRIPTION:

GATCATGTGT ATGAATTGTT GGTGCTCTAA AGAACAGCAC AAATAAAATN ATTTTCAAAT 60
 TTAAA 65

SEQ ID NO:7288

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08527

SEQUENCE DESCRIPTION:

GATCCGNCCG CCTCAGCCTC CCAAAGTGCT GGGATTACAG GCATGANCCA CTGCACCCGG 60
CCCCATTCTT CACTTTAGCC TCAGGCAGAG AAGACNGCGC GATGGGGNNN 110

SEQ ID NO:7289

LENGTH:296

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08528

SEQUENCE DESCRIPTION:

GATCTGCGAC ACTGTGGACT GAACACACTG AAGCTCTGAT GGGAAAACCT GGTGACTGAT 60
ATAGTTGTTC AGCAATAATT CATAGTCTGT GATGAAGAGT AGTGAATACA ACACACAACC 120
AGGCAGCCTT CTTGACTATA CTTTGCACAT GNTTCTTTA GGAATTCAC CACACATTTA 180
AACCAGTTAG TGCCTTCTAG AAGAATGGCT TTCCTTTNTN CTACACAAAN TTTGAATTAT 240
ACAAGNNTCT AAATATAATA CCTTTNAATA AAAAGGNTAA TTNNGNCCCT CTGAAA 296

SEQ ID NO:7290

LENGTH:381

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08529

SEQUENCE DESCRIPTION:

GATCAGGTCC AAGCAAAACG TCCAGAGTGC TACAAAATGT TCGTTCCTCA GTCCAAAAAG 60
AAGTGAAAA GAATCTGAAG TCATGCTTGG ACAATGTAA TGTTGTGTCC GTAGACACTG 120
CCAGAACTT ATTCAACCAA GTGATGGAAA AGGAGTTTGA AGACGGCATC ATTAAGTGGG 180
GAAGAATTGT AACCATATTT GCATTTGANG GTATTCTCAT CAAGAACTT CTACGACAGC 240
AAATTGCCCC GGATGTGGAT ACCTATANGG NGATTCATA TTTTNTTGGC GAGTTCATAA 300
TGAATAACAC AGGAGGATGG GNTAAGGCAA AACGGAGGCT GGGTATGTGT GATGGGAAAA 360
CTTTCTTCAT TGGTNCTTTC N 381

SEQ ID NO:7291

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08530

SEQUENCE DESCRIPTION:

GATACCCCC GCCGACGGCC CCGGGCCCCG ACGGCCCGGA AGTTCCGCAA A 51

SEQ ID NO:7292

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08531

SEQUENCE DESCRIPTION:

GATCATTCTG TTCTTCAAG GAGAAATAAG CCTAAAAGAA GAAAAACAAA AAAAATTCTG 60
TATAAACTG TAATCCTTG TATTCATGTT TACAGTGCTA TTACTATAAT NCAAAATTAT 120
GTATGTGACT TAGAGTTATA TAATCATAAT TTATGTTTAT TTCAAATATC TAAGTTTATT 180
GCTTGGATTT CTAGTGAGAG CTGTTGAATT TGGTGATGTC AAATGTTTCT AGGGTTTTTT 240
TAGTTTGTTC TTATTGAAAA NTTAATNAT TTATGCTATA GGTGATATTC TCTTTGAATA 300
AACCNATAAT AGAAAATAGC AGNCACCATA ANCATCTTTG TAAATNN 347

SEQ ID NO:7293

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08532

SEQUENCE DESCRIPTION:

GATCCAGAAA CTTTCCCAA GAAGCTTGGA CATGGATTGC TGGTAAACAC AAAAAGCTGCA 60
TGGAGGGCAG AGCAGCCGGT TGACTCCCC TTGTCAATAT CTAAAGTGG AAAAGCTTGA 120
AA 122

SEQ ID NO:7294

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08533

SEQUENCE DESCRIPTION:

GATCATCTTT CCTGTTCCAG AGAAGTGGGC TGGATGTCTC CATCTCTGTC TCAACTTTAC 60
GTGTACTGAG CTGCAACTTC TTAAGTCCC TAACTNAAAG ANCGACTCTG ACAGAACTN 120
TNTTNCNCA ACAGTTN 138

SEQ ID NO:7295

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08534

SEQUENCE DESCRIPTION:

GATCCTTCG GNGGAGTGTC GGAGAAGAGA GCTTGCCGAC GATGCCTTCC TGTGCAGAGC 60
TTGGGCATNT CCTTACGCC AGGGTGAGGA AGACACCAGG ACAATGACAG CATCGGGTGT 120
TGTTCTCATC ACAGCGCTC AGTTAGAGGA TGTTCTCTT GGTGACCTCA TGTAATTAGC 180
TCATTCAATA AAGCACTTTC TTTATTTTAA A 211

SEQ ID NO:7296

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08535

SEQUENCE DESCRIPTION:

GATCAACGGT ACTTGTTTAA AAGAAGCTTA TGTGGACTTT GTCTTTTCTC GTTGCCACAA 60
CCTCTTTTAA TGTGCCTATA GTCCACTATA GCATGCATAT CTCAAATTGC AATTCCTTGC 120
AATTCTGGAA TAAACGCTTT ATTTTGGAGA AA 152

SEQ ID NO:7297

LENGTH:381

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08536

SEQUENCE DESCRIPTION:

GATCTGCTGA CTTATATAAA GCTTTTTGAT TCCTACTAAG CTTTAAGATT TAAAAAATGT 60
TCAATGTTGA AATTTCTGTG GGGCTCTATT TTNCTTTGG CTTTCTGGTG AGAGAGTGAG 120
GAAGCATTCT TTCCTTCACT AAGTTTGTNT TTCTTGCTT CTGGATAGAT TGATTTTAAG 180
AGACTAAGGG AATTTACAAA CTAAAGATTT TAGTCATCTG GTGGAAAAGG AGACTTTAAG 240
ATTGTTTAGG GCTGGGCGGG GTGACTCACA TCTGTAATCC CAGCACTTTG GGAGGCCAAG 300
GCAGGCAGAC CACTTGANGG AGTTCGGGNC CAGCGTGGCC ACCGTGGTGA ANCCCTGTNT 360
CTNCTAAAAA TNCAAAATTT N 381

SEQ ID NO:7298

LENGTH:379

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08537

SEQUENCE DESCRIPTION:

GATCAACAGC CTCCTCTCTT GGGGACTCTC AAGAGCCTGT TTTCATCTAG AAGTAGTAGT 60
TTGATTCTGG TTTCCCTCCT ACAGTGTGTC CTCCGTCTCT TTGCAGCTCC GTCATTACCA 120
TAGGGGACTT GGTTTTAGAC TCTGATGAGG AAGAAAATGG CCAGGGGGAA GGAAAGGTGA 180
GTGGGAAGGA GCAGAAAGCT GGGAAAGGGG ATGGGTAGAA CAAGACTGAG AAATCCACAT 240
GCTTCAGANT TCAGAGGGTT CAGGGAATNG TTTCGGATAG TAGGCTCTCC CTGCTCCCTT 300
CTCTACAGGA ATCTNTGGAA AACTATCAGA AGACAAAGTT TGACACCTTG ATACCCACTC 360
TNTGTGAATA CCCTACCCN 379

SEQ ID NO:7299

LENGTH:82

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08538

SEQUENCE DESCRIPTION:

GATCATTACA AACAAAAACT GTAATTTTNT TATATTTGAT TCAATGGAAT TTACCTAAAA 60
AATAAGACT AAAAATGTGA AA 82

SEQ ID NO:7300

02070

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08539

SEQUENCE DESCRIPTION:

GATCCCTTTA TTGACAGCCA GTTTGAGGAC ACTGTCCCAG CATCTCTAAT GGAGCCTGAG 60
CCGGTGTGAG GACCAGGATG TCTTTTCCCA GCCCCAAGAG ACCTGTTGCT GCTTTCTTGT 120
AATNATGGGG CTCCCCAGAG TCTGCGTAAC AGTCTCCCAC TGGCTGGCTC ACCCACAGGT 180
GCCATGTGCA CACTCCTGGT TTTCAAACAA TTCTCTGGAT TTAAA 225

SEQ ID NO:7301

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08540

SEQUENCE DESCRIPTION:

GATCATGCAT GCCAATCCCT GTTGCCGCAT GGAGCTCCTC AGCCCACTGA CCTCTCCGTG 60
CCTGGTGCAG GCCAGGCCCC CGTCTTCCGC CTGCCTCTGC TTCCCCGTCA TGCATGGTGG 120
TGGTGTCTTCT ACGGTGTCTG GTTCTGTGCC CGTCTCTGAG ACAGTCTCTG TGTGGAATNT 180
GCCTTAAACT GAAGTAAATN TGGTTCTTTT AGTAAA 216

SEQ ID NO:7302

LENGTH:374

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08541

SEQUENCE DESCRIPTION:

GATCAATTCA TGCAAGATAT AATCATATTT TTAAATTAAG AAAATTTTTT TTGTAGAGAT 60
GGGGTTATGC TGTGTTGCCT GGCTGGTCTC AAACCTCTGGG TCTCAAAGCG GTCCTCCTGC 120
TTTGGCCTCC TAAGGTGCTG GGATTATAGG CATGAGCCAC TGTGCCAGGC CTGAGGATAT 180
TATCATTATA AATATATATG TACCCACAC TGGATGACCC AGATATAAAG CAAATATTAT 240
TAGATTTAAA GGGAGAAATA GACTCTAATA CAATAGTAGT TGAGGACTTC ACTCTACTCT 300
CAGCATTGGA CAGATTTTCT AGACATAAAA CCAATAAATA TTGGATTAA ATTGCACTTT 360
ACACCAAATG GTCN 374

SEQ ID NO:7303

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08542

SEQUENCE DESCRIPTION:

GATCCCATT CTATGAAATG TCCAGGGCAG GCCCAGCCAC AGAGACAGGG AGTAACGTGG 60
TGGTTTATTA TAAATTTTTC ATGAAAATAA AATATACAGT ACTCTCGTGN AAA 113

SEQ ID NO:7304

02071

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08543

SEQUENCE DESCRIPTION:

GATCTGCACA GCCTCTAGAG GCCTCCCAGC AAATGCGGGG AGCCATGCCC CCAGGGTCTA 60
CACACTCTCG TTCATCAACA TCACAACCTGG AATTCGGGAT TTGTGAAGTT TAGAGCTGNA 120
CAGACTGTGA CAGATTATGA GTCAACACGT ATATTTTCTC TTTCAAAATA ATAATATTTT 180
GTTTTTGACT TTTTACTAAG TGAATATTAT TTTTAAATC TGCCTATATA TTGGAACCTC 240
TATTTTATAA TAATAATGAT AATAAATCAG TACCCAGAAG TATAAA 286

SEQ ID NO:7305

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08544

SEQUENCE DESCRIPTION:

GATCTAAATN ATGTACTTGT TAGTGTATTC ATTCATATTG ATTGTAAAGG ATTATTTTTC 60
ACTCAGTACT GATGTCCTTG GAAATCTTAC CTGGAACAT GTTGCAAAA AACAAA 116

SEQ ID NO:7306

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08545

SEQUENCE DESCRIPTION:

GATCCCAAGT CTACCCTGGA AATNCCCAGG CACAGCATGC CTGGAGGTGT GAGCCGCCTC 60
TTAGAAGCTT TATAATCCC GATAATNCTG CTGTAATTGG CATTGTTTTT CCATTACAAT 120
CCTTTCATTA CCTGAAA 137

SEQ ID NO:7307

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08546

SEQUENCE DESCRIPTION:

GATCCCAGCT TGGTGGGAAA GTGCAGAAGA ATTGCAAAAC TGACATCCCA TNTNACAGCA 60
ATAGTGACCT TTATTTAAAT TGTGTGTGTA TAGTTTATGC TTCTTAAATC ATTTTCAAC 120
NTAAACAGCC AATTTCTAAG CAGACAGGAA AACTAAATAA TAAGTTNATT NATATAACAA 180
AGATGCAGGT TCCTGCTCAT TCCAGTAATG TCTTTGAAAG CANNCTNAT ATTTNTTTC 240
TAGATTATCC CTGTGAATAA TTGAGANCTT TTTGGAGTCA AGNATGAATA AAGGTGTGGC 300
AAGGNTATAA ACANNAN 317

SEQ ID NO:7308

LENGTH:337

02072

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08547

SEQUENCE DESCRIPTION:

GATCTGTCAG AAAAGACATA TTTTGTGAGAT AAAGGAGTTT CTAAATAATG AATTATTGTT 60
TAGTACCAGC TTTTGGAAATC CTTACATTTT AAGGAACTTG AATAATTTAA ATATTAGATA 120
ATGTAACCTC TCATAAAAAC AGTGTCTAGA CAAGGGCCAA TATTGCATTG AGATTGGATG 180
AACATTTTAT TTTGCATATA ATTGTTGTCT ATAAAACAAA ATACTAATAA TAATGGCTAC 240
CNGTTAGNCA NTTTAGNNCN TGTCTTACTA TTTACCNNTG TGGNAAAACA TTGCATGNTT 300
TAATNTTTTT CTATAAAAT ATTNTNCCAT TANCNNN 337

SEQ ID NO:7309

LENGTH:389

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08548

SEQUENCE DESCRIPTION:

GATCCCACCA ATCCTCGTTC CCCCTAAACA TGCTAACAAA AATCCCTTAT TGTGGGTATT 60
AAAATAATAA CAGTTACACT GTATGCATAT TTATGTGCTC CTTTGTCTG GTTTNCTTT 120
TCATCATGTA TAAGCTGAAT TCAGCATTAG TTTCTCACAT CTTCCCCCAG GTATCCCCAA 180
CAGAATTTTT ATGTCCCAGC TTGTATTAAA TAGAAGTGAA ATATTAAGGA AAATAAGGAA 240
CTTGTGCAAC TTTTTNATG CATTGTTCTC AACCATTTAA TTTATTGAAA GGAGATGCTG 300
CAACAGTTCT TGATTTAGCA GCAGTTATTC TCTTGTTTAC ATAGTTATGG TTTNTGTTG 360
TTGGTTTTTG CTCTGGTACT GGGAAACCGN 389

SEQ ID NO:7310

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08549

SEQUENCE DESCRIPTION:

GATCCAGGTC TTCTGATTCT TATTCCAGTG TCCTTTCTAG CATACCATGT TGCCTCTAAA 60
GATTGCAGCT CCTTATTAC TAGAAAATTG TTCCTGCCCA ATCTACATCT CCACCTCACC 120
CCATCTTTTC TTAAGCACTA TGTTTGTGTT TTTATCAGTA TTATATTCAT TGTCTTTGGA 180
ATACATGTTC TTGTTTGTGT TTGGAAAAAA AATCTCTTTT ACCAGCTTGC ACTCGGACCA 240
ACTTGAAAAA AAAAANGCTT AAATGTTTTN GCTATGTNCA GTTTAAAAAT GTGAAGTTG 300
TNGCTTTANC TTTTGTAGG AAAATCTANT ANCACTGGCT TAAGTGCTGA CTTGAAATGC 360
TATCCAN 367

SEQ ID NO:7311

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08550

SEQUENCE DESCRIPTION:

GATCCAGCGA ACCACTGCAC TCTAGCTGGG GAGACAGAGC AAGACTCCGT CTCAA 56

SEQ ID NO:7312

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08551

SEQUENCE DESCRIPTION:

GATCTCTTCC CTTAGGAAAT ATCAACATCT TTATGTACAT GTCAGAGTCA TGGTGTGATG 60
ACGTA CTTTG AAGCATGGAG TCAGTTTCA AA 92

SEQ ID NO:7313

LENGTH:368

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08552

SEQUENCE DESCRIPTION:

GATCCACTTA TGAAGTGAAC ATTCTCCATG AACAGGTGGT TGGATTGGTA TCTGTCATTG 60
TAGGGATAGA TAATAAGCTC TTCTTATTCA TGTGTAAGGG AGGTCCATAG AATTTAGGTG 120
GTCTGTCAAC TATTCTACTT ATGAGAGAAT TGGTCTGTAC ATTGACTGAT TCACTTTTTC 180
ATAAAGTGAG CATTTATTGA GCATTTTTNC ATGTGCCAGA GCCTGTA CTTG GAGGCCCA 240
TTGTGCACAC ATGGAGAGAA CATGAGTCTC TCTTAATTTT TATCTGGTTG CTAAAGAATT 300
ATTTACCAAT AAAATTATAT GATGTGGAAA AAAAAAAAAA AATTGCGGGC TTGNANGNTN 360
GGGGTCAN 368

SEQ ID NO:7314

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08553

SEQUENCE DESCRIPTION:

GATCACACCA CTGTACTCCA GCCTGGATGA CAGAGTGGAG ACTCTGTTTC AAAAAACAG 60
AAAAGAAAAT ATAGTTTGAT TCTTCATTTT TTAAATTTG CAAATCTCAG GATAAAGTTT 120
GCTAAGTAAA TTAGTAATGT ACTATAGATA TAACTGTACA AAANTTGTTC AACCTAAAAC 180
AATCTGTAAT TGCTTATTGT TTTATTGTAT ACTCTTTGTC TTTTAAAGAC CCCTAATAGC 240
CTTTTGTAAC TTGATGGCTT AAAATTCCTN ATTAATNCTG CCATTTCAAN TTCCAAA 297

SEQ ID NO:7315

LENGTH:86

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08554

SEQUENCE DESCRIPTION:

GATCTTTGAA TGAGCTTTTT AAGGAAGAAA TATTATATAT TGTTTGTTAA AGTTTATTGA 60
AATAAAGAAT CATTTAAATC TTCAA 86

SEQ ID NO:7316

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08555

SEQUENCE DESCRIPTION:

GATCCAAATT GTGAAGCCGT TGGTCAGGTG CCTGGCTACA CACAAAATGG TGGAGGCTTA 60
GCCTAAACAG TTTCTTCATT TCACATTAAA ATCCTAATTN NTGGCTCCTC TCAAAATGAG 120
TTCTAGAAGC ACNGGNTGTA GATTCCCATG TGGACACAGC CTTCAGGAGG TGAGCAGCAG 180
CTCCCTGCAG CCAGCTGGAG CCTGCCAGTT TTCCCTAGTG CCCAGCACTC CTGAGCTTCT 240
GCCCTCCGAG GGATTCCCGA AGTTTTTCT AATGGGNTTA GTGGNGNCNC CTTTGGGGTT 300
GCTTNGGTTT CNTTTNGTTA NGNGCCCTTG NTTTTAAATT AAANCNGGGC CATTNN 356

SEQ ID NO:7317

LENGTH:349

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08556

SEQUENCE DESCRIPTION:

GATCTGTGGG ACTGTCTGGG CCTGTTACTC ATCCTGCTAT CAATTTCTTA TTAATTAATC 60
TTGATGATTC TNATTAATTA ATCACATTTG CAGGAAATTC AGATGAGGCA AGAAAATTTN 120
ATTGGCCTGG GNNNGACTGA AAGCATTCCA AATTAGGCTT AGACTGTGCA AAGGGCTTAG 180
CTAAGTTATC GAGCTTAAAA CCCGTCAATT AANCAAACAT TATTTGANCA GTTACTGCAT 240
GCCACGCACT GTGTTGGGCT TAGTAATAAA ANNNAGNAAA GGTAAGNGCT TGTNCTNGCC 300
TAAATTAAAG GGTCCCCGGG GGTTTTTCT NGAGGGGGCN NCTGCCCCN 349

SEQ ID NO:7318

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08557

SEQUENCE DESCRIPTION:

GATCACCTGA GGTCAGGAGT TCAAGACCAG CCTGGCCAAC ATGGTGAAAC GCTGTCTCTG 60
CTAAAANTAC AAAANTTAGC TGGGCATGGT GGTGGGCACC TGTAATCCCA GCTACTCGGG 120
AGGCTGAGGC AGGAGANTCG CTTGATTCCA GGAGGCAGAG GTTGCACTGA GCCAAGACTG 180
CACTGTTGCA CTCCAACCTG GGCAACAAGA GCAAACTCC GTCTCAAAAA AAAANGTGTT 240
TAATTATTCT AAAAAAATT CAGCCAGGTT ATTCCAAATT NTAATTGAAA NCNGGGGCCC 300
CAGGTTAANC GGGGCCCTTAC CCTTCCTTN GCNCTTGGA NTTTNCCAT N 351

SEQ ID NO:7319

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08558

SEQUENCE DESCRIPTION:

GATCAGCAGT GTTGACCATT TATGCTGCAT AGCTGGTATT ATAGCCTTAT TAGTTGTGTG 60
 GTTGACCCTT GGGGTATACA AATGTCAGTC TGAGTGGTGN CTTACTCCTT TGTTTATAAG 120
 TGAATGATTG TGCATGTTTT GTATGTCATA GTATGTCGTC ACATAAAAGG GAGGGAGCGA 180
 AAAACCATTA CATTAAAGATA ATATTGGACC AACTACTTA CTTGCTCTAA ACAGTTACTT 240
 GTACCCCTTA ACCTGTCTTC AAAAGTTGCA TATAGTTACA GTAGTGTATA AATTAAATAT 300
 TGTGGAAAAC CANNAANAANN NNNNANNNNN NNN 333

SEQ ID NO:7320

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08559

SEQUENCE DESCRIPTION:

GATCAGCTGA AGGTTTCATGG GTTTTAAGTG CTTGTGGCTC ACTGAAGCTT AAGTGAGGAT 60
 TTCCTTGCAA TGAGTAGAAT TTCCCTTCTC TCCCTTGTC CAGGTNTAAA ACCTCACAGT 120
 TGATAATGTA CCATTGGGGN CCGTTTAAAC TGGGCCTAGG NACCCCTCA NGAATAACCT 180
 GNAAGGGCCA AA 192

SEQ ID NO:7321

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08560

SEQUENCE DESCRIPTION:

GATCGTGCCA TTCCACTCCA GCTTGGACAA CAAGAGCAAA ACTCCGTTTA TAAA 55

SEQ ID NO:7322

LENGTH:78

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08561

SEQUENCE DESCRIPTION:

GATCAGACCC CCACAATATG TCTCAACCTC TGTTGAAGGG CTAGTGATGT TAAAAAAAC 60
 CTGTTATTTC CAATCAAA 78

SEQ ID NO:7323

LENGTH:375

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08563

SEQUENCE DESCRIPTION:

GATCTGGTAT TTCCTGGACT AAATCCCCT TGGGGAAGAC GAAGGGATAN TGCAGTTCCA 60
 AAAGAGAAGG ACTCTCCAG AGTCATCTAC CTGAGTCCCA AAGCTCCCTG TCCTGAAAGC 120
 CACAGACAAT ATGGTCCCAA ATAAGTGACT GCACCTTCTG TGCCTCAGCC GTTCTTGACA 180

TCAAGAATCT TCTGTTCCAC ATCCACACAG CCAATACAAT TAGTCAAACC ACTGTTATTA 240
ACAGATGTAG CAACATGAGA AACGCTTATG TTACAGGTTA CATGAGAGCA ATCATGTAAG 300
TCTATATGAC TTCAGAAATG TTTAAATAGA CTAACCTCTA ACAACAAATT AAAAGTGATT 360
GTTTCAAGGT GGAAA 375

SEQ ID NO:7324

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08564

SEQUENCE DESCRIPTION:

GATCCACCTG CCTCGGCCTC CCAAAGTGCT GCGATTACAG GCATGAGCCA CCGCGCCTGG 60
CCGCTTTTCGA TATTTTCTAA ACTTTAATTC AAAAGCACTT TGTGCTGTGT TCTATATAAA 120
AAACATAATA AAAATTGAAA TGAAAGAATA ATTGTTATTA TAAAAGTACT AGCTTACTTT 180
TGTATGGATT CAGAATATAC TAAATTAAT TTTTAAAACA CAACTTTTAA AAAATGTATC 240
AAAATAATAA ACGTGTTCCTG ATATTTTAA A 271

SEQ ID NO:7325

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08565

SEQUENCE DESCRIPTION:

GATCCCCTGA GTTCAAGAGT TTGAGACCAG CCTAGGCAAC CTTGTCTCTA CAGAAAAATA 60
AATAAATAAA TAAATAAACA AACAAACAAA CCAAAAATTA AA 102

SEQ ID NO:7326

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08566

SEQUENCE DESCRIPTION:

GATCATGAGG TCAGGAGACC GAGCACCATC CTGGCTGACA CGGTGAGACC NCGTCTNTAC 60
TAAAAATACA AAAGCAAAAA TTAAGTGGGT GTGGTGGCGG GTGCCTGCAG TCCCAGCTAC 120
TNGGGAGGCT GAGGCAGGAG AATGGCATGA ACCTGGGAGG CGGANTTGCA TTGAGCTGAG 180
ATGGCACCAC TGCACTCCAG CCTGAGCGAN NNNNNN 216

SEQ ID NO:7327

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08567

SEQUENCE DESCRIPTION:

GATCTGCTCT CTGTTGAGAG TTGGTAATCA TTGGTTTGAA ATGTGATGAA ACCACTCAAG 60
CCAATGAAGG TGGGTGTGTA GGTGGGGAGT ACTTTGCCAT AATATTTTAA AACATTACCT 120

GGTTAGAGTT CTAAGTGGTA CTTATTTTGT TTTGGTTAGG GGAAAGCCTG AATAAA 176

SEQ ID NO:7328

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08568

SEQUENCE DESCRIPTION:

GATCTCTGGC TGTTTGATT TTTNATATT GTATTTTAA AATNTGTAA ACAGTGCCCT 60
GTGAGCACCA AGTACCACTA GATGAATAAA ACGTATTATA TCTAAA 106

SEQ ID NO:7329

LENGTH:379

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08569

SEQUENCE DESCRIPTION:

GATCCGGCAG GCAGAGAGGA AAAAGGGAAC TTGTACCAAG CACAAACAGG NTCTAGGCAT 60
AGTGCTGTGT ACTTAGGTTT TTCCTGTGCT TCAGTCTTTC CAATAAATCC AGGGGTTAGG 120
TTTAAATCTN NCTATTTNAT AGTTACAGAC CATTTTAAAT GGACAAGCAG CCCATTTAAA 180
GATAAAAGTA CTTAGATGGA CTAGCAGCTT CTCTACCAA TTATTTTACC ACACAAAGNT 240
AACATCATTG TGAATTTTGG TTTAGTTAAC ATGCATTCCC TGGCCTGCCT CACACCGGAC 300
CTNTACCCGG TACCATGCAA ATGCACATCT GCTGCTACAC TTGTGGGATG CTGGTTTAGG 360
TAATTNTTTT TTATAATNN 379

SEQ ID NO:7330

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08570

SEQUENCE DESCRIPTION:

GATCCCAGCA GAATACCAAA ATCCTATTTT TTTTACTGA GTATTTGTAG ATGCTTAATG 60
ACTGAAATNA ATTTGGAGGC ACTGATGAAA GTAATTTTTT NAAAGTTCTC AGGTACTGTT 120
CAATTATTTA ATGTTAAGTT TAGTATCAAG ATACAGTTGT TTNAAAATG CCAAAATGCT 180
GTTTATNATA CAGAATATTT NATTACATTT GCAATATCTT TGTATATAGT GATTTTNTNC 240
TTGATAATAA ATGGAAAANT TCTAAACCAA A 271

SEQ ID NO:7331

LENGTH:382

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08571

SEQUENCE DESCRIPTION:

GATCGACCTG CCTCTGCTTC CCAAAGTGCT GGGATTACAG GCGTGAACCTA CCGCGCCTGG 60
CCCTCAGATA TTTTAAATTT TGAAAATTA GAGTATATAT TAATATCAAG TNGCAGAAAC 120

AGAATGAAGT GTTATAAAGG CGTTAAGTAG TAGGGNGGCA TAAAACTTAA ATCTTTAAGC 180
TAGAAATAGC TTGAGGAATT ATCTGATGCA GTACTCTGTT GTAATATAAC AAAAATGGAA 240
TCACAGTTTT ACAAATCAGG CAGCTGCAGC TCAGNGAGGT TAAATTCCA CAGACCTGTT 300
TATGCAGCGC GGTAANTGAG GAAGTAGACC TAAAATTGG GGCCTCTGCT ACTCTGGGCC 360
ATTACCTCAG CCTCGCTGGC AN 382

SEQ ID NO:7332

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08572

SEQUENCE DESCRIPTION:

GATCTCACAG GAATCCTTCA ACTGCTTTCT ACCAAGCGTT CCATTGAAC ACGTTAAAGG 60
AATCAAAGAG CCTCTGGGAT AGGGGGGAAA NCACATGGTA TCTAGCATGG GACAAAGCAG 120
CAAAATAAAC CAAAAGGACA ATCTCTATTT TATATAGAAA ATAAACATAC TTTTCTGCAT 180
CCTGTGTACT TTAAGTATAT CTATATTTTT GAAGGGTTCA TACTGTGTTG AATTTTCTT 240
ATGAAATAGT CACTTCCCCA GTGTATTTTA ATGCAAATGC ATATTCTATA AAATAACCTA 300
TATTTTAATT TAAA 315

SEQ ID NO:7333

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08573

SEQUENCE DESCRIPTION:

GATCTTTAAT ATCTGATATA TTCCTGGTAC TCGTACTGAT AAGGGATTAT TGGAAGTCAG 60
TCACAGAATT TGGAATAAAA TTCTAGTCTN TCCTTAGCTN NNNN 104

SEQ ID NO:7334

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08574

SEQUENCE DESCRIPTION:

GATCTACCTG AGGCTCAGTC CTCATCTGTA AAATGCTGAT AAAAGGACCT ACCACCTAGC 60
GTTGCTGTGA GGTGTCAGTG AAATAAAATG TAAATGCTT AGCACAGTGA ACTTTAATAA 120
ATGGTAGTTG TGTTGCAAA 140

SEQ ID NO:7335

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08575

SEQUENCE DESCRIPTION:

GATCTAAAGT CTAAAAACA AATCCTTAGG TTAAGAAGAA AATAATGCAA TAAATAAAAT 60

GTTATAAATA AATGACATAT TGCNACTTTT AAA

93

SEQ ID NO:7336

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08576

SEQUENCE DESCRIPTION:

GATCATACCC ATGAAACCCA CTGTTTAGAT TTTAAAAAGT TCAATGTTTT TCTGTATTN 60

ATCTCTTCAT TTTAAATAA AGTTTGCAC ATGAAA 96

SEQ ID NO:7337

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08577

SEQUENCE DESCRIPTION:

GATCTAAAAG CAGATGCTGT AGCTGCCTAC TTAAACCCAT TTTCAACCT GTTTGTTTTT 60

TAAAGGGCTT CACTAAGGGT NNNNNATGTA CCATTGTAGG GGGCAATTTT AAGTCAGCTA 120

AGGCAATAAC CTTATGCATG AACATTTCCC AGACTTTCAT GAAGCTGTTG AGGTCCTAGG 180

CAATTAATGC GGCAGTTGTG ATAAATAAAA ACATCTCACC TAAA 224

SEQ ID NO:7338

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08578

SEQUENCE DESCRIPTION:

GATCNATATT TAGTGACTGC AACATGTTTA TACCACTGAT TCAAATTCCA NNNNTGATGA 60

AGTTATACAA ATAATGCATA TATTGATAAC TTTTATTGCA AAAATGTAAA TTTAAACTT 120

GTATAATGTT CTTGTGCTTT TTAAAATAAA ATATATGTGT ATATTTAAAA AGAAA 175

SEQ ID NO:7339

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08579

SEQUENCE DESCRIPTION:

GATCTGAGGA TGGTTATAAA TACTGTAAGT ATTGTAATGT TATGAATGCA ANNTATTTG 60

AAAGCTGTTT ATNATNATAT CATTCTGAT AATGCTATGT GAGTGTTTTT AATAAAATTN 120

ATATTATTT AATGCACTCT AAA 143

SEQ ID NO:7340

LENGTH:106

TYPE:nucleic acid

02080

TOPOLOGY:linear
CLONE:HUMGS08580
SEQUENCE DESCRIPTION:
GATCACTTGA TTTTAAAGAA ATNAAAAATT GCACTAGGTA GAAATAGTGT ACCAGGCAAT 60
AGTCCAGCTT TAGTTTTNTG TCATTTTNG TCTCTATTTA AAGNNN 106

SEQ ID NO:7341
LENGTH:93
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08581
SEQUENCE DESCRIPTION:
GATCTCAAAG CAAATCTGTA TTTAATCTC TCAGGTGTTT ACTAGTATTA CCAGTGACTA 60
GTGGAAATAA TAAAAGGAAA TCTTGTTTAT AAA 93

SEQ ID NO:7342
LENGTH:193
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08582
SEQUENCE DESCRIPTION:
GATCTTCGCT CCAGCTTTCT GCATCTGAGC TGGAAAAAGA GCAAAAACGG GTAAAAATTG 60
AATCCAAATA TTGTCGNATG TATGCCTAAT TTAGAATGAA ATCTGGGGT GGCAGACTCT 120
GGAGTTCTCT GTGAGGTGTG GCATTCTTTT NTCTAAATCA CTTATTTGCC AATGTATGTG 180
TCACCTTGTG AAA 193

SEQ ID NO:7343
LENGTH:137
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08583
SEQUENCE DESCRIPTION:
GATCTATAAT AAGAGCTCAA TAACTNNGTC AAGGAAAGCT CTAATATATG CAGTGATGGT 60
TTATGAAAGG GTGTGGCAAT NTNAAATNTA TATTGTGTGT GATGTTCAAA TAAAGTGGTA 120
TCTACATNCA TGTGAAA 137

SEQ ID NO:7344
LENGTH:389
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08584
SEQUENCE DESCRIPTION:
GATCCCTGGT ATNGTCCGAA TTGTAAAGAA CATCAGCAAG CCACAAAGAA ATTGGATTTA 60
TGGTCCCTGC CTCCAGTACT TGTAGTACAT CTNAAGCNAT TTTNTTACAG TCGATACATG 120
AGAGACAAGT TGGANACCTT AGTTGATTTT CCTATCAATG ACTTGGATAT GTCGGAATTC 180

TTAATTAATC CAAATGCAGG TCCTTGCCGC TATAATCTGA TTGCTGTTTC CAACCACTAT 240
GGAGGGATGG GAGGAGGACA CTATACTGCT TTTGCAAAAN ATAACGATGA TGGAAANTGG 300
TACTATTTTG ATGACAGTNG TGTCTCCACT GCATCTGANG ACCAAATTGT GTCCAAAGCA 360
GCATNTGTAC TCTTCTACCA GAGACAAGN 389

SEQ ID NO:7345

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08585

SEQUENCE DESCRIPTION:

GATCTGTTAC CATCAGGTCA ATTCCTAGTA TGCATAAATT TTTTAACCTT TTTAAAAGAG 60
ACCTATGTTG AAAACCCCTG AAAATTCCTT GAAGAAAAAT CATTACTCTT NTTCTCNGTA 120
AATCATATCA TCTGAAATAT TACAAATTC AAATTTCTAG GTGCTATATT AATTCAATAT 180
TACAATAACT CTTACCTAAT TATTCTTACA AGTTTAAAGT TGTGGTAGTT TAGTGATTTT 240
TTTAAAAGAT GTGTGAAATG TTCTCTGCAA AATAATTCAG GCCACTGTCT CCTTTTATAT 300
ATNATNATNN TNGTNTGTGA TGANGACCAG TGAATTACGA TATTTAAAGT GAGAGACCTT 360
AATTNTN 367

SEQ ID NO:7346

LENGTH:23

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08586

SEQUENCE DESCRIPTION:

GATCCCGTCT ATAATCNAAC AAA 23

SEQ ID NO:7347

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08587

SEQUENCE DESCRIPTION:

GATCGGCTCC CTGTCGCGCC CGAGGAGGGC TGGACCTTTC GTGTCGNACC CTTGGGNGCG 60
NNGAGACTGG GTGGGGAGGG TGTGAATAA AAGGGAAAAT AAA 103

SEQ ID NO:7348

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08588

SEQUENCE DESCRIPTION:

GATCTGGTGG CTGGA AAAAC AAGAGTGACA TTAACAAATC AAAAAAATC AGTTAGGGCT 60
GTGGTTTTAC ATCCAAGACA TTACACATTT GCATCTGGTT CTCCAGATAA CATAAAGCAG 120
TGGANATTCC CTGATGGANG TTTCATACAA AATCTTTCCG GTCATAATGC TATTATTAAC 180

ACATTGACGG TAAATNCTGA TGGAGTGCTT GTATCTGGAG ACAGAAGAAA CTCATCCAGT 240
CAGCTGGAAA CCAGAAATTA TCAAGNGAAA GNGATTTTAA TGAATGTGGA ATTTTTCCTC 300
TCTCTTTTTT TTTCTTTTAA ATTAAAANAA AAAAGGCTTG GNGTTCATGG GGGNTTCCC 360
GNCCTTN 367

SEQ ID NO:7349

LENGTH:22

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08589

SEQUENCE DESCRIPTION:

GATCCCGCCT NTTCTTACA AA

22

SEQ ID NO:7350

LENGTH:378

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08591

SEQUENCE DESCRIPTION:

GATCTTTTAA AAATTCATCC CATATCCAGA AAGTACCAGT TATAAAGATT GCTGACCAAG 60
CAAAGTTTGT CATCAAAGTG TCACCTCATT GCTCTGACCA AAGACTGACT GTTGTGGTTT 120
TAACTCCTCT CTGTAAAGCA TTTTGCATTT TCCCCAAGCT CCTTCTGAA AGAAGAACCA 180
GTGCAGAGCG GCCTTTACTT TCAATTTCTA CTGCTGAATA GACTACTTAG AGAAAATGTG 240
AGTTTCAGTG TGAACAGAAT GGATTAGGAT GACGAGTTTG ATGGGCATTT TCAGTACTGT 300
ATCTAAGAAA AAAAAATTNG CACAGCTAGG AGCCTCTGAC CATTGTCTGG GTGTTTACG 360
TGGGTCCTGT TCATCAAA 378

SEQ ID NO:7351

LENGTH:379

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08592

SEQUENCE DESCRIPTION:

GATCAAAGTC AAAAATAGCA ATGNCTCCCT ATCCCTCACA CATCCAGACA TCATGAATTT 60
TACATGGTAC TCTTGTTGAG TTCTATAGAG CCTTCTGATG TCTCTAAAGC ACTACCGNTT 120
CTTTGGAGTT GTCACATCAG ATAAGACATA TCTNTAATTC CANCCATAAN TCCAGTTCTA 180
CTATGGCTGA GTTCTGGTCA AAGAAAGAAN GTTTAGAAGC NNNNNCACAA AGGGTTGGGA 240
GCTGATGAAA CTCACAAATG ATGGTAGGAA GAAGCTCTCG ACAATACCCG TTGGCAAGGA 300
GTCTGCCTCC ATGCTGCAGT GTTCGAGTGG ATTGTAGGTG CAAGATGGGA AAGGNTTGTA 360
GGGTGCAAGC TGTCCCAAN 379

SEQ ID NO:7352

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08593

SEQUENCE DESCRIPTION:

GATCTGCTTT AGTGAGAGGA CAATTTCTGA TTGATTGTTT TCTCTTCAGG CCATCTCACC 60
TCTTCATTCT CTTGTNACAT TTGAAGCAGT TGATATAATG GGTTTATANN NNTAAAAGN 119

SEQ ID NO:7353

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08594

SEQUENCE DESCRIPTION:

GATCAGCTAT TTTCAACATA ACTGAAGGCA TATGCTGGCC CATAAACACC CTGTAGGTTC 60
TTGATATTTA TAATAAAATT GGTGTTTTGT AAA 93

SEQ ID NO:7354

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08595

SEQUENCE DESCRIPTION:

GATCTCTGTA GACTTGCCCTC TTCTGGACAT GACATAGAGA AAGGAGTCAT AAATTCTCCA 60
AGGTGTCTGT TTCTTCTTTA ATGTCATTCC CTGTTTCTCC TCACATTCCC TCCCCATTTT 120
CTGGGCCCAG TCTCACACTG GTCCTTGCTT ACCCTAAATG CTATTAATTC CATCACTCTG 180
AGTATGGTGT TTGCTGTCCG CTGAATGCCA AGAGCTTCAA GAGTGTGTGT AAATAAAGCC 240
ACACCTTTAT TTTTGTATTA TTCTGAACCA TGGCTAATAA ATTGTTTCAC CAAGAAA 297

SEQ ID NO:7355

LENGTH:45

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08596

SEQUENCE DESCRIPTION:

GATCTCCGAT GTGATGAATA CGAATAAAAG GCCCTTAATG GCAAA 45

SEQ ID NO:7356

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08597

SEQUENCE DESCRIPTION:

GATCTGTTCA TGCTTTTGTC TTCGTCACTG CGGCGGGGCC CTTTGATGTC TTCATCTGTA 60
TGGGGTGGAA AAATCACCGG GAATCCCCCT NNNAGTTCTT TGAAAAAGTT CCATGACTCG 120
AATATCTGAA ATNAAGAAAA CAAACCGACT CACAAACCTC CAAGTAGCTC CAAATGCAAT 180
TTTTAAAAATG GAAAACAAAA ATCTGAAAGA AA 212

SEQ ID NO:7357

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08598

SEQUENCE DESCRIPTION:

GATCTAAACT GTATTTTCCA ATTTAAATTA AAAATGTAAT ATAGATTCAG AAAGGTTTCAT 60
ATTTTCTAA TGACTTCATT CTATATTATT TTGTTAGGTT GCATAAAGAA GCAAGGAATT 120
GTACTTGTAT TAAAAGATGA GGAAAGCTAT TAGGNTTATT GGNCCATGCC TGAAATNGGG 180
CCTTTGCCCC TAAAAGGAA AGGTTGGCCC NTTTTNAAG GGGCNTTNA TNTGNNTTN 240
TNTTAACCAN 250

SEQ ID NO:7358

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08599

SEQUENCE DESCRIPTION:

GATCTGGCTT NGCCCTAAGC NNCTTAGGNA CAGAAGAGTC CATGGGGGCA TGGCACAGAG 60
CTGGTCCTGT ATTCTCCAGG GTCCGGAGCT GGCCAGGGGC GGGGAGGAGG NN 112

SEQ ID NO:7359

LENGTH:386

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08600

SEQUENCE DESCRIPTION:

GATCTTATTT NACTTCATCC TTCTTGTAAC CATATTGTNA ATCAGGAAAG CTCAATCAGA 60
TACAAAAACA GGAAATTCGT TAAAAGTAAC GTTTGTAGAA GATACTAGTT GAGGAGGAGA 120
GACTTTTNAG AAAGCCTGTG TGTGTTTGTA ACACTCTTGT GACCGTGCCA AGAAAACGTA 180
AGCAAATATC AAGCCTCCAA ATCCTAATGC AACANGTCCT GANTCCCTTG CAGGTATGTC 240
CTGGATGATG ANTACACAAG CTCAGTAGGC TCCAAATTTC CAGTCCGGTG GTCCCACCG 300
GANGTCCTGA TGTATAGCAA GTTCAGCAGC AAATNTGACA TTTGGGCTTT TGGGGTTTTG 360
ATGTGGGAAA TTTACTNCCT GGGGAN 386

SEQ ID NO:7360

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08601

SEQUENCE DESCRIPTION:

GATCCGGGNA TTATACAGGT ACTGTTGGAA GTATCTTGGG GATTTTCCTG ATAAGAACAG 60
TAGTGATTGN ATAAAAAGGA CAGGATGTAA AGTGAAATCA GTAAATATC TTAGTAGACA 120
GAGGGTGCTG AAATTTTAAC AAATGTGTAA AAAGTTCTTC CTATGCATTA ATTTCCAGA 180
TACCCTTAAA ATGTTTAAGG AATGTAATTC AAAATACTGT TTAANAGAGA CATGTGACCA 240

TCATTCTCCC AGCGAATGTG AATCATTTAG TGNGCTACTC AAAATTAGGN GTAAATGTAT 300
ATGTACACTA TAAGANTAAN ANTCGNTACC ATTTCTTTAA A 341

SEQ ID NO:7361

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08602

SEQUENCE DESCRIPTION:

GATCCGTCAG NCGACTCTAA AGCTAATTGT TTGTATTGGC ATGGNTTTTG CCAGGCATCC 60
AAAATTCAGA TTAAACAACC AATGCAATCA AA 92

SEQ ID NO:7362

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08603

SEQUENCE DESCRIPTION:

GATCTCGTCT GAAACAGTGT TTGGAAGTGG GAACAGTTTT GTCCTGTATG CTGATGTGTC 60
CAGAATTTCA TTAAATGATA GACGGAAAAT GTGTGGTTAC TGAAAACGTG ATATGATACA 120
GAATTTTATA AGAGCCATGC TGTTGGGCAA AGCAACTCTT TTTCAACCAC TGCTCATCAG 180
TTTCTGTAGA GACAAAAACT CTGTACATAT TTTGGAATCT GAAGAATCCT ATGTAAATCA 240
TTTGTTACTT AAGTCTGTGA AAAACATATT TCTTTGGAGG AAAATGTATG CATTTATAAG 300
TGTTCCATGG AATCAGTTTT TATTGTATCG ATATAATTGT CTCTAAGTGT TGACTGTCN 359

SEQ ID NO:7363

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08604

SEQUENCE DESCRIPTION:

GATCTCCTTA CACTGCTATT CCAGAGGAGA AGNCACCAGG TCACTCAACT CTTAGTATCA 60
TCTACTGGAA ACTGGCTAAG ACAGTATTTA TGTGCTTCTC TCACAATAAC AGGAAGATAN 120
CTATATCACA CAATGGATAT GGCAGTTGGC TTGACTGCAG TAATCATTTA ACTATGTATA 180
TGTATATCAA AACATCATGT TGCATACCTT AAATATGTAC AATAAAAATA AAATCTAAAG 240
GANATAANTT AANATTACCT TCCACCAGGC AAA 273

SEQ ID NO:7364

LENGTH:358

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08605

SEQUENCE DESCRIPTION:

GATCAGGGAT GCAGTACCAC TTGCAGTCAA ATGAATTCCT TCGAAATGTA TTTNNACTTG 60
GACCCCCAGT GATGCTTGAT GCTGCAACGC TTAAACGAT GAAGATTCTT CGTTTCGAAA 120

GGCATTTATA TAACTCTGCA GCCTTCAAAG CTCGAACCAA AGCTAGAAGC AAATGTCGAG 180
 ATAAGAGAGC AGATGTTGGA GAATTCTTCT AGATTTTCAG AACTTGAAGA CTATTTTCTA 240
 ATTTCTATTT TTTTCTAN TTCAATGTAT TTAACTCTA GACACAGTTT TTATCCTGGA 300
 TTAACCTAGA TAACTTTTGT AGCAGTGGTT ATATTGCTTA TAATTTAATG TACAATTN 358

SEQ ID NO:7365

LENGTH:263

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08606

SEQUENCE DESCRIPTION:

GATCTACNGT GAATATAAAA TGTTATTAGC CTTATCAAAT AAATAAATGA GCANAGCTCT 60
 TTGTTGCTC TATTGAACTG GGTGATAATN ATTTAGATGT GAATGTTAGG TCAGTTCTAC 120
 TGTAATAACT AATCGTAAAA GTTGTAATN TGTTAATGG ATGAAATGTA CANTTTTGT 180
 ATTCTNTACA GCTTTGTCTT TTTTAAATAT GAAGTACTTA AATGTACTTA CTATGATAGG 240
 AAATATAATG TGTGCCTTCT AAA 263

SEQ ID NO:7366

LENGTH:366

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08607

SEQUENCE DESCRIPTION:

GATCTAAGTA AAATGTTTTG AAGTTTATCA GAACTAAAT GTACTTTTAA AACGTATAGG 60
 GTCAGGGTTG GGGGAAAAAT ACAGGTATAG TAAGNAAGAA AAGTGACCCA TGAAGAAAGC 120
 ATCGTGAGGT TGTATGTTGG TTGACTGTGA TTTAAATGCG GGGCTGGTGT AAGTTGTAAG 180
 TGGTGGCTGA TTGCCGTGTA ACTATGTACA TGATTGTTGG GATGGCTGTC CCATATTTTG 240
 TATATTGGAA TAAAAATTC TATAANTTAT NGTAACTAAA AGTAAATATT CTAAATTAAG 300
 TCCCACTNCT TAAGTCACAT GGCTTCTGTC TTGGGAATTT TACCTTTTAA NANGATTATT 360
 TTNAGN 366

SEQ ID NO:7367

LENGTH:378

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08608

SEQUENCE DESCRIPTION:

GATCTTGGCT GTTCTTTCTA TTCTGCCAGC CATCTTCCAA AAAAACTAA AGCAGAAATT 60
 TGAGTAAAAA TAATCATCTG ATTTTAAGTT TTGCTGTCAT CACCATCTCA GGATTAACAG 120
 CTGCGACTTT AGGTGGGGTA TATTTCTTC TCCTAAGAGA ATAGACAGTT TTTCCAGATT 180
 CATCATCATT GACTGTCAAG AAAGGACCCT TCAGCAAGGC TGTACCNTCA ATGCAGTTGA 240
 TGGCCTGTNT TCACGGNTTT ACAGACTTGG CCTGATGCCC ATGTAANTTC AAGCTTTGGC 300
 TTGTGGNAAC AACCACANGG ANGCAAGGC ATCTGTNGGT GCGGGNGGGC AAAGCAGGCT 360
 TANCTNGGN GGTGACN 378

SEQ ID NO:7368

LENGTH:421

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08609

SEQUENCE DESCRIPTION:

GATCTAGAAA CCCTTTTACC TGGCCCCAAG GCTCTAGCCA GTGGTCTCTG GTGACCCCTG 60
CAAGCTCAGA GATGGGGNTG TTGTGTGCCA GGCATGAGCT TCCCCAAGAG GCAGAGGGCA 120
TACATCCCAT TTATACATT CTAAGCCCA CCCCTGTNTC CTCAGGCACC ACCTGCCCTG 180
GTCAGCTCCA GCCAGTCCCT GCTGGAGTGG TGCCAGGAAG TNACCACTGG CTACCGTGGG 240
GTCCGAATCA CCAACTTNAC CACATNNTGG CGCAACGGCT TGGCCTTCTG TGCCATCCTG 300
CACNGATTNT ACCCAGACAA GATGTGAGCT GCCAGAGGGG TGGGACGAAT GGGGGAGCCA 360
TCAGGGAGGG CAGTNTGGAC CCAGCTTTGA CCAGANAATT TTNAGAGTGC TTTGCTNGTT 420
N 421

SEQ ID NO:7369

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08610

SEQUENCE DESCRIPTION:

GATCAGCAAT GAGTCGGCAA TTGACTTCTA CAGGAAGTTT GGCTTTGAGA TTATTGAGAC 60
AAAGAAGAAC TACTATAAGA GGATAGAGCC CGCAGATGCT CATGTGCTGC AGAAAAACCT 120
CAAAGTTCCT NCTGGTAAGA CNNCAGNTGT NAAAANGCCA GCAACCTGNC CAATTTCCAN 180
TGANCCTN 189

SEQ ID NO:7370

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08611

SEQUENCE DESCRIPTION:

GATCTGGTGG AGAAAAGAAG CAAAACCTTG TTTTAATTTA CTGTTTTTTT AAAATCTTTT 60
TGGATATTGT TTTGCATCCC ATACATTTGC AACTGGCAAT GAAATGTAAG CTTTGGTTCT 120
GAAAAAAAAT AAATGTAGCT ATTCAAA 147

SEQ ID NO:7371

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08612

SEQUENCE DESCRIPTION:

GATCCACATG CNTGTGGCAG CCCAAGGCTT TGTTGTAGGA GCAATGACTN TTGGTATGGN 60
CTATNCCATG TATCGGGAAT NCTGGGCAAA ACCTAAGCCT TAGAAGAN 108

SEQ ID NO:7372
 LENGTH:273
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08613
 SEQUENCE DESCRIPTION:
 GATCTTTGAG CTGTGGTTTC TCCACCTGTG GAATATAAAT GTNAACAACA TAACCTTCTT 60
 TCTAAGGATA ACTTGAGAAT TAACAGTGCA AGTAAATGGA AAGTATAGTA CCTGTNACCA 120
 GATATTTAAT AGTAGTTATT ACGAAATTGT AACTCACTAC CTGTNTTAGT TGAGGTTTAT 180
 CTTCAGCCAT GCAAATCAAA ATCAGATTAT TTNCACATCA GCAGATAAGG TTTGTNTGAG 240
 ANTCTNATTT TNNATTTGNT ACTCTNATTT NNN 273

SEQ ID NO:7373
 LENGTH:419
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08614
 SEQUENCE DESCRIPTION:
 GATCACAGAT GTAGTTCCTG AGGTTGAGTC TCCTTCTCAG ATGGATGTTG AATTGGTGAG 60
 TGGGTCTCCT GTGGCACTCT CACCCCAGCC TCGATGTGTG AGGTCTGGTT GTNAGAACCC 120
 TCCCATTGTG AGTAAGGACT GGGACAATGA ATACTGCAGC AATGAGTGTG TGGTGAAGCA 180
 CTGCAGGGAT GTATTCTTGG CCTGGGTAGC CTCTAGAAAT TCAAACACAG TGGTGTGTTGT 240
 NAAATAGTCC TTCCTGTTCT CCAAGCCAGT GAAGAGTTAT CTGCTGGGAA AGTGTCGAAG 300
 AGCCTGTTTT TGAAACACAA GCTGGGCTTC TGGTAGTGCC TCATCACAAAC CCATGATGGC 360
 TGTTTCATGGT TTCACCCCTT TTNTTTCNT CAGCAGAGGC CAGGCTATTG GAGCAGTTN 419

SEQ ID NO:7374
 LENGTH:209
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08615
 SEQUENCE DESCRIPTION:
 GATCCTAATT TGCACACTAT CACCTAAAGT CCTAGCATAC CTGCATTTCC AGGAAATCTA 60
 ATGAGAAAGA AGTCCTGAAA GCCTCTAATT CCTGGAAACA TATGAAACGG CTAGAAAAAA 120
 GTAGACTATT TTGGAGGATT AAAGACAATG GAAACTTTTT ACATTGTTTG TCTCACATAA 180
 TGAATAAAAT TCCACTTTAA AAAATGAAA 209

SEQ ID NO:7375
 LENGTH:422
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08616
 SEQUENCE DESCRIPTION:
 GATCCGCAGC TCGAAAAAGA ACAAGCCACA GAANCGGGCT CGCTCGTGCC AGGACACAGC 60
 AGTGTCTTTA AAAAAATCAA AACCAGAAGT TTTATCAGCA GCAGGAAGNN TGTGGGACTC 120

TGTCCAAGTT CACCGTCACC ATCAAGCCAC TGGCTGTGGA AGGAGTTTNT CCAACAGGGT 180
 CAGTGTACACA GCCACAACCTT CAGAAAGCAG CCATCCCGCG TGTCGTCCAA ACAGCAGTGC 240
 CTGCNTCCCG CTCCACGGAG TGTTCNGAA CACCTCCCTC TGAACATAATC CCGGAGCACC 300
 CCACCCCCAG CGAGTCCCAC CTGGACCTNT TCAAAGTCAA AACTCTTCTT TNGGGCCAAC 360
 CAATTNTTCG GGCTTTNGAG GCCTTGAAC TGGGGCACCA AGTTTNTTTC CATGGGAANT 420
 TN 422

SEQ ID NO:7376

LENGTH:413

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08617

SEQUENCE DESCRIPTION:

GATCCCACCA GTTCTGGAC GTGGAGAGTC TGGGGCATCT CCTTCTTATG CCAAGGGGCG 60
 CTTNNNGTTT TCATGGCTGC CCCTCCAGAC TGGCAGAAAC AAGTAAAAAC CCATTGGGGC 120
 CTCTTGATGT CTGGNATGGC ACGTGGCCCCG ACCTCCACAA GCTCCCTCAT GCTTCCTGTC 180
 CCCCCTTAC ACGACAACGG GCCAGACCAC GGAAGGACG GTGTTGTNT CTGAGGGAGC 240
 TGCTGGCCAC AGTGAACACC CACGTTTATT CCTGCCTGCT CCGGCCAGGA CTGAACCCCT 300
 TCTCCACACC TGAACAGTTG GCTCAAGGGC CACCAGAAGC ATTTNTTAT TATTATTATT 360
 TTTTAACCTG GACATGCATT AAAGGGTCTA TTAGCTTTCA GAAAAAAAAA ATN 413

SEQ ID NO:7377

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08618

SEQUENCE DESCRIPTION:

GATCCACAAA TGAAAGGGAT ATAAAAATAA TGTCATAGGT AAGAAACACA GCAACAATGA 60
 CTTAACCATA TAAATGTGGA GGCTATCAAC AAAGAATGGG CTTGAAACAT TATAAANTT 120
 GACAATGATT TATTAAATAT GTTNTCTCAA TTGTAAA 157

SEQ ID NO:7378

LENGTH:399

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08619

SEQUENCE DESCRIPTION:

GATCCTAACA GCTTGCAAT TTTGGTGCAT CTGCTCAATC AAGTCTAATA GACACAAGGA 60
 TGGCTTTCAT CGGCTCAGGC AGCATCATGA TGAGTATGAA GATGNAATTC GCATGATGTC 120
 TACCGGCTCC AAGAAGTCCC TCCTAAGCCA TGAGTTCCAG GATGAAACAG AACTGAAGA 180
 GGAAACATTA TATTCTAGCA AACATTGGNG GNCACATTT GCATATCTCC CAGCATAAGT 240
 ACCAAGCAAA ATTACAGTTC CTCTTGGGAG AACACTGCAT TAAGGATGCG AGACTCTCTT 300
 GCTTCTTCAA AGNGCTTTTG GGAATTTAAA TTGCTAANTA TGTATTCTCA AAANAANNNN 360
 NGGGANNTT GGGGGGNTG GGTNTTNCGG AGNGANGNN 399

02090

SEQ ID NO:7379
LENGTH:34
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08620
SEQUENCE DESCRIPTION:
GATCGGTCCC TAAACCTCAT TAAATATTT GAAA

34

SEQ ID NO:7380
LENGTH:405
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08621
SEQUENCE DESCRIPTION:
GATCTNATGG ATATGGCAGT GGACGTGGAT TTGGGGATGG CTATAATGGG NATGGAGGAG 60
GACCTGGAGG TGGCAATTTT GGAGGTAGCC CCGNTTATGG AGGAGGAAGA GGAGGATATG 120
GTGGTGGAGG ACCTGGATAT GGCAACCAGG GTGGGGNCTA CGGAGGTNGT TATGACAACT 180
ATGGAGGAGG AAATNATGGA AGTGGAAATT ACAATNATTT TNGAAATTAT ANCCAGCAAC 240
CTTCTAACTA CGGTCCAATG TNGAGTGGAA ACTTTGGTGG TAGCAGGAAC ATGGGGGNAC 300
CATATGGTGG AGGAAACTAT GGTCCAGNAG GCAGTNGAGG AAGTNGGGGT TATTGTNGGA 360
NGGNGCCGAT ACTGAGCTTC CTTCCTATTT NNCCATGGCA TTTNN 405

SEQ ID NO:7381
LENGTH:261
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08622
SEQUENCE DESCRIPTION:
GATCCTAGCC AGATTACCAG AAATTNCGTT AGTCATCTAA ATCAGAGACA TCAATTTNAT 60
TATGGAGAAT TTNTGAATCT CCAGCTAGAT GANGAAACCC AATACCAAAC TCCTGTTGAA 120
GAATCTTTNC AAGTAAACAT CTGAAGGCTG TAGACATCTC TCCATCTTTG TACCTGCAAG 180
TCCCATCTTT AAGGGGGAAA CTACATGANG TCACCGTTAC AGTAACTTGA TGTGTATATT 240
AATAAAAGTA ATTCAGTCAA A 261

SEQ ID NO:7382
LENGTH:44
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08623
SEQUENCE DESCRIPTION:
GATCTATGTA TAGATAAAGA TTAAACATAT CTAGTACAAG GAAA

44

SEQ ID NO:7383
LENGTH:109
TYPE:nucleic acid

02091

TOPOLOGY:linear
CLONE:HUMGS08624
SEQUENCE DESCRIPTION:
GATCTGTTTC TTAAAGCTAC AGGGTTTAAA AAATAAAAAAT GAGTGAAAAT ACTTGATGTT 60
TCTTGAAAGA TAAATTTAAT AATAATAAAT AAATACATAA ATACATAAA 109

SEQ ID NO:7384
LENGTH:93
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08625
SEQUENCE DESCRIPTION:
GATCATTGTG GCGTCCACAA TGTATATATA AAACAAGTTG TACACATTAC CATGTATAAA 60
TTTGTGTTTG TCGATTATAT GTCAAGAAAG AAA 93

SEQ ID NO:7385
LENGTH:54
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08626
SEQUENCE DESCRIPTION:
GATCTTAATC TTATTCTCTG CCATCTTCAA ATTAAAAAA AATTTCTTG TAAA 54

SEQ ID NO:7386
LENGTH:140
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08627
SEQUENCE DESCRIPTION:
GATCCCTTCA GAAGAAGACA TGATAGGATT GTAAGTTTTT NTCTAACTTT GGATGCAGTG 60
AGATGACCAG TGTGTTCCAG TTAAAGAAGA AGAGTGTTTT AAAATCATAA ACCAAATAAA 120
GAATCCTACC TTACATTAAA 140

SEQ ID NO:7387
LENGTH:206
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08628
SEQUENCE DESCRIPTION:
GATCCACCCA CCTCAGCCTC CCAAAGTGCT GGGATTACAA GCGTGANCAC TGTGCCTGGC 60
CCTTTTTTTT TTNAAAGAGA TGGCATCTTG CTATGTCGTC CAGGCTGGTN TTGAACTCCT 120
GAGTTCAAGC AGTCCTCCTG NTTCAACATA CAGNTACAGG TACCCCCAC TATACATTTT 180
NAATANGGNT TCATGGNTCA GNGGGN 206

SEQ ID NO:7388

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08629

SEQUENCE DESCRIPTION:

GATCCCATG CTTTCCTGTT TAAAAAATAT TTTATGCTCT TTATTTCAC TTCTGTGAAT 60
GTGATATTTT TATTTTNTGA TTATGTTACT GAATAAACAA ACTTGCTACA TAAATNCTT 120
AGCAATTAAA 130

SEQ ID NO:7389

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08630

SEQUENCE DESCRIPTION:

GATCCAATTG TGGATTTATT TACAAACATC AAATGCCTTC AAGCCAATCC TTTTGCTGT 60
ATGTTTGGCA GCCTACTGTA GTAGATACGC AACAGATAAT GTGGGAAAAA AAGAGATAAG 120
AGGAGGAAGC TAATAAGAGA CTGTCAAGAT TGTATACCTT CTTGGTTTCT TTTAAGAATT 180
TGTTGCCTTT NTACTATNNC AGCAAAGCAG CATTTTGTTA CTGACTGCCT AAAATCACTT 240
AATCTCAGGT GAACGCATCA CTTGCCAAAC TGTTGGAATG CTATTTGTGT TTTGTTGCAC 300
TGTTTTTTTC GTTTGTTTGT TTGTTTATTT GGTGCTTT TTGGAGAGGG AAATN 355

SEQ ID NO:7390

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08631

SEQUENCE DESCRIPTION:

GATCTAAAAT NAGAGAAGCA TTTAAAAAAT NATTTCTGTC TTGGTTCATC TTATTGTTAG 60
TGGTTTATGC TAATAAAAAT TGATTTAACA ATCAAA 96

SEQ ID NO:7391

LENGTH:411

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08632

SEQUENCE DESCRIPTION:

GATCCAGATA TGTCTGTTAT GAAAGATATC AGTATAGGTA AAGCCACAGG CAGAGGTCAG 60
TACTGATAAT TAATGTAGTA TAAATACATC ATTTACCATT TTATTTTAAA TAGGAAGCCA 120
TCAAGCATGC TAGAATTGTG AACTTTCATT ATATNTTTTT GTTGTGACA TGAATTAACC 180
TGGCCAAAAA CAAAAAAGAA NAAAAAACC ATGCCATTG TCATGTAAAC CTTTTTTT 240
TCCCTATGGG CCTTNGGGN CNGAATCAGT ACTTCAGTTA TTGTAATNGT GNGCTAACCT 300
CAAAATNTN TCACCCNGT GCCCTTTTCA TGNCTAAC AATTNTCTGG GGGNTTGGTA 360
TGTTTCNCCC GGTCTGNTC ATGTTTACCG NNCTCTTTT TNGNGGTCC N 411

SEQ ID NO:7392

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08633

SEQUENCE DESCRIPTION:

GATCTAAGTT CTAAGCCAAA TAACTAACAA ATTCCAGGTA CTATGCCATC ATATAATATT 60
TATAAATGTG TTATATATAT TATGAGATAT GTATAAGAAT ATAGAATGAA TATGTAATAA 120
ATTATACTTT TAAATTAATA TTTTCAAATA TATAAATATG TAGTTTCAGA CTGAAACTGT 180
TCTAAACTAT ATAAATGTAT TATGTATGTT TTATAAATA CAGTACTCAT AATATGTATT 240
ATATGAAA 248

SEQ ID NO:7393

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08634

SEQUENCE DESCRIPTION:

GATCCTTCCA CCTCAGCCTC CCCAGTAGCT GGGACTACGG GGTCGCCACT GCACCCAGCC 60
TGTGTCTTCC AGCTCTAATC AGAAAGCTGC TTGTCGAGGG CATGGGGAAT CAAACTGAAT 120
GAACTTTTCT CTGCACTGTG GCAAACTGT TATTTTATG GATTTTACTA AATGGCGTTA 180
CCTTTTCAAG ATTTATATGT TTGTATAATC ATAAGAAAAT TGAGCCATTA AAGCCTTGTT 240
ATTCAAA 247

SEQ ID NO:7394

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08635

SEQUENCE DESCRIPTION:

GATCCAGGCT CGTAGNTCAC TCCCTGCCCG TNTCCAGAG ATGCTTCACC ANCACCTGCC 60
TCTGAGACCT CGCTCTCTGT TCCAGCAACC CTGGNTTGGG GGGTCANN 108

SEQ ID NO:7395

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08636

SEQUENCE DESCRIPTION:

GATCTTGAGC TCCTGGCCTC CAGAATTGCA GGAGAATAAA TNTGTGTTGT TTTAATGAA 60
A 61

SEQ ID NO:7396

LENGTH:275

TYPE:nucleic acid

02094

TOPOLOGY:linear

CLONE:HUMGS08637

SEQUENCE DESCRIPTION:

GATCAGTGTT TGNTTGGGAC TGAAGGGATG ACTAATAAGG AGCAGAGGAA AGCTTTTGGG 60
GATGATGGCA CTCTTCTCTG TCTCCATTAC GGCATTGGAT ACAAGTCTCT AGAACTCCCA 120
GAACTCGTCA CTGAAAGGGG TGAATAGTAC TGTATGTAAA TTAGGTCCNN ATTTTNAAT 180
GGGANAAATA AATATAAGA CAAATTACAC TGCTGTATTA NNTCANNTGA TAGATGTAAA 240
AGTCTAATAT ATACGTNTTT TTCNTGATAN NCCCN 275

SEQ ID NO:7397

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08638

SEQUENCE DESCRIPTION:

GATCCACGCC CTTCCCGCCA GTCTGGAGAG GGCCCTGACC GAGGACTCAA CCCAAACCAG 60
TGACACAGCT ACCAATTCTA CTTTACCTTC TGCAGAGGTG GCGTTACAGG CAAAGTGAGG 120
AGGGAGCTGG GGGACACTTT CGAGCTCCCA GCTCCAGCTT CGTCTCACCT TGAGTTAGGC 180
TGAGCCACAG GCATTCCTG CTTATTTTAG GATTACCCAC TCATCAGAAA AAAAAAAG 240
GCCTTTGTGN CCCNTGTTTT GGGGGGATTA ACCNGTTTGT GGTTTAAA 288

SEQ ID NO:7398

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08639

SEQUENCE DESCRIPTION:

GATCTAATTN CTATTTTATT TATTCAGAAA TAGCATTTAG ACATAAAANC CAATGTCTCA 60
CTTTGTAAAA TAACCTTTGG CTAATTTACA CACATCTAAT ACAGCGTGTT ATATAAGTTT 120
TAAGTAATAC AATGAGTCAC TACTATCATT CAGTTTTAAN TATTTTNGT GTTAACAGGG 180
CTGAGAATAT CATGTGGTTC AGTCTTCTGN NGGNCGTTAT ATNATACCNG CNTAGTGCCT 240
TTGACCATGC NGACTATCCT CAAGGCCAGA CATCCTACAN CGGAACGNN 290

SEQ ID NO:7399

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08640

SEQUENCE DESCRIPTION:

GATCCNTAAG TACTCTTCTC TANAGAATAA AATGCATTAC CTAGGCTTTA ATAGTTAAAA 60
GCTGGNATTT ATNGACCGC ATCTACTTGA TTTCAANAATA TGCATTGATT TTAGTATGTT 120
GCTGNTCTGT TATCTGTACT CAACTATANC AGAGTAATAT ATTGTGGTNT TCTGGACCAA 180
AANTCGTGCT ACACATATGT CTGATGGCCT TNACCTTTTC ANGACAACAG TTGCAATTTT 240
GAGCACAGTC CNCCTAGTGG TANTCTN 267

SEQ ID NO:7400

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08641

SEQUENCE DESCRIPTION:

GATCGGGAGC AGCCCCACTG GACCTAGGTG CCCCATCTGT TGGTCATCCA TCCTGAAGGG 60
ACAGGAAACC TCCCAGGCAG TTATTTTTTT TTCTCTATAT TTCTAGTAAA GTTTTCGATA 120
TGTTAAA 127

SEQ ID NO:7401

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08642

SEQUENCE DESCRIPTION:

GATCACTAGT GCAGGAGAAC ATTACATTTT CTTCTGAAGG CAAAATGCTT GTAGGTTTTG 60
CCTCTACTTT GTATTTACTT TAAAATTGC ACTTGTTTAC CTACCAAGTGT TTACGAAATC 120
CTGTATTTGG GATGCTTTTT CTATAATAAA ATATTATAAT TTGTGAAA 168

SEQ ID NO:7402

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08643

SEQUENCE DESCRIPTION:

GATCATAGTA AAGAGTAGTC AATAGGGTCT TCAGCTATTA ATTGTAGAGG TGATTAAAAC 60
CAACAAGGAG TTTCATGTGC AAAGGAGATA AGGAATGAAT ATAAAGATTG CTATTTGGGT 120
GGCTCTTATT AAAGTGTGTA TTTTGTACTT ATCACTACAC GTATCCCCCA AATGCTTACA 180
TGGGAGTTTG AGGTAGTAT TTTCACTTCC TTGGTGTTAG TACTCTATTC ACATTCTTAT 240
TGTAACCTTC CTCATTTTAC AGATAAGGAA TCTTTGGGGA TTAACCAACC TCCTTTCTGT 300
AATGGTAATC ATTAAANTAA GTN 323

SEQ ID NO:7403

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08644

SEQUENCE DESCRIPTION:

GATCACTTAN GCCCAGGAGG CAGAGGTCAC AATGAGCCGA AATTGTGCCA ACTGCACTCC 60
AGCCTGGGCA ACAGAGGAAG ACTCTTCACA GAAA 94

SEQ ID NO:7404

LENGTH:226

TYPE:nucleic acid

02096

TOPOLOGY:linear

CLONE:HUMGS08645

SEQUENCE DESCRIPTION:

GATCGGGGCT TTGTGTTTAA CCTCATCAGA CATTATTGCA GCCAGCTGTC AGCCAAGCTC 60
AGTAACCTTC CAACGCTCAT TTCCATGAGG CTAGAGTTCC TGAGAATCCT CTGTAGCCAT 120
GAGCATTACC TCAATCTGAA CCTTTTTTTT ATGAATGCTG ATACTGNTCC NACATCTCCT 180
TGTCCTTCCA TATCTTCCCA GGTAATAAAA GAATTATTTA ACTAAA 226

SEQ ID NO:7405

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08646

SEQUENCE DESCRIPTION:

GATCCAGTCA GAGCCAGGGA GAGTGTGTTGC CTTAAGGAGG GACTCCCTTG TCCAGGATGG 60
GGCTGGCACT AGGGATGGGG TGAATCTTAG GACAGGAGTG GGGGTCAGAA ATGGGAGGGG 120
TAAA 124

SEQ ID NO:7406

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08647

SEQUENCE DESCRIPTION:

GATCGACCAG CAGGTGGTCT ATATCCATCC TTCCAGTGCC CTCTTCAACA GACAGCCAGA 60
ATGCCCAAAG AACTTCCTCC CTNTGGTTGC TGTAGGTGTC TCATTGGAGC AGTGCCTCTC 120
CAAGTTTGAG GATNTGAACA AAGAACTGGG ACTGGTGACT TGTNANNGNN NAGTTCAGAG 180
GGCAGAGGNC CATCATCTCA GCTTNN 206

SEQ ID NO:7407

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08648

SEQUENCE DESCRIPTION:

GATCCATAAG GAGGGCTGTG TGGNGAAGAT TCAGGGACTG ANTAGAGGGA AAATCGTGCT 60
ATNCGGTAGC TACAGCAGCC CTGGGAATNC CNTTTTGTCG AGN 103

SEQ ID NO:7408

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08649

SEQUENCE DESCRIPTION:

GATCCATAAG NAGGGCTGTG TGGAGAAGAT TCGGGNCTGG CTGAGGAAAA ANCGGCTGGT 60

GGTAGCTACA GCANCCCTTG GAATACCCTT TTGTCGAGGT TTTGGGNATT GTCTCN 116

SEQ ID NO:7409

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08650

SEQUENCE DESCRIPTION:

GATCTATCAT GTATCTTGGT GATTACAGTT AATAATATAT TGTATATTG ANAATNGAAA 60

SEQ ID NO:7410

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08651

SEQUENCE DESCRIPTION:

GATCGCACCA CCGCACTCCA GCCTGGGCAA CAGAGCAAGA CTGTTTCAA ATAAATAAAT 60
AAAATAATAA ATAANNCTTT CCAACTNCAA A 91

SEQ ID NO:7411

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08652

SEQUENCE DESCRIPTION:

GATCTTGTGG CTAAACCAGC ATTTCTGTGT TTGAGAGATT TCCTGTTAGG TGCTTCGTCT 60
GAAAGTGAAC TCTCATAATT CAAATTGTAT AAANTAAAGC TACATTTCTA AGAGCTTGGT 120
GTAGGGCAAT TGGAATANTG TCCTGTTAGA TAAACAGACA TTTAGCANTC CTGACATTAA 180
AAGGAAATGT ATTTCTATAC AGGATTATTA GCTGTANTAC ANGATATTTA TTTANCCAAA 240

SEQ ID NO:7412

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08653

SEQUENCE DESCRIPTION:

GATCGCACCA CTGAACTCCA GCCCGNATGA CAGAGTGAGA CCCTGTTTCT AAAACAAAA 60
CAAACAAACA AACAAACAAC GTATCTTACT GACTAACTG GAATGGAAAT CTTATAATNA 120
GTGTTGTATT TTTCTGCAAA ATAGTGAATT NGNACTGGG AGACTTCNNN NCTTTGTTGA 180
AAAAAATTGC CTTTGTTTTG AAATTATATC ACCTGTGTTT TGANCTAAAA TGNTGGGAGT 240
TCATNNN 247

SEQ ID NO:7413

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08654

SEQUENCE DESCRIPTION:

GATCCATAAG GAGGGCTGTG TGGAGAAGAT TCAGGNANCT GACTGAGGAA AAATNTGCTG 60
GTGGTAGNTA CAGCANCCCT TGGAATACCC TTTTGTGCGAA AAATAAAGGA ATTGTCTTCA 120
NCCTGCTN 128

SEQ ID NO:7414

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08655

SEQUENCE DESCRIPTION:

GATCCATAAG NAGGGCTGTG TGGAGAAGAT TCAGGGAGCT GACTANAGGA AAAATGTGCT 60
GGTGGNANAT ACAGCAACCC TTGGAATANC CTTTGTGCGA GAATAAAGGA ATTGTCTN 118

SEQ ID NO:7415

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08656

SEQUENCE DESCRIPTION:

GATCTTTNTN ATATATGCAG TCCCATCCCT TCTGTGCCAC TCAATGCCAT CCAGACATGG 60
TTTTNCCCTC CANGGGCCTT TCTCTCCAGA GGGCACTTCG GCTGCCTCTG CTTCTCTCA 120
TTCGAGGCCC GNCTCTTCT NACAGAATAG N 151

SEQ ID NO:7416

LENGTH:374

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08657

SEQUENCE DESCRIPTION:

GATCCCGTTG CCTCATGGAA CTCATGCATT TCACGCTGCT TGCCCTTTCT GTGCTACACA 60
GCTGGTTGGG GNGCAAACT GCATCAAATT AATTNCCAA GGTCCAATTG ACTGACGCCC 120
TTGACAGCCA TCTACGACTT TATTAACAGG TTACTGTGAA GATTTNCCA CTAACCTAG 180
ATTTNCCCTT TTTGTAATGC TGTTTATCAG AGGCGGGTGA CANGGGCTGG AAATAAAGNG 240
AGGGGACATG GTGATGAAAC ATGGCAGGNG TGTACAGATA CCAGTGGTGT GTTGCATGCT 300
CAANACAGCA GCGTCGTCAA TGGCGTCTGC TTGNTTGNNC CATNATGTCT TTGCATAAT 360
TGGNAANNA NNNN 374

SEQ ID NO:7417

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08658

SEQUENCE DESCRIPTION:

GATCTTTATG TCACTAGTTA TAGTTAAGTT CATTAGACA TAATTATATA AAAACTACGT 60
GGATGTACCG TCATTGAGG ACTTGCTTAC TAAACTACA AAACCTCAAA 110

SEQ ID NO:7418

LENGTH:232

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08659

SEQUENCE DESCRIPTION:

GATCTTTTAA ATTCAGTACA ATCTCTGAAG GTGTAAACAC TAATNTTTTA CAAGAATGTA 60
GAGGCGACTC GGTGCTATGA AGCGTGTTAA ACAACTCACA CAATTGCTAC AAAACACCAG 120
GGAGGGGCTT TTTGTGTTTT TAATTTTAA AACATTTTTC CTTTCTTGT GAGCCATAGT 180
AGGCCTAGAG AGATTACTGG GTTTTTATAA TTAAACATTT ATTTCGGTGA AA 232

SEQ ID NO:7419

LENGTH:370

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08660

SEQUENCE DESCRIPTION:

GATCTTAACC AGTCGAGTGG AGTGTACATT GTCTGAATAC AGGATGCACA ATGTTGTCAA 60
TCCTGGAAAT GGTCTTCTT TTTTGTAAGA TATGTGAATG AAGTGTGGT GTCCTCACCA 120
AGAGGTGGCA CCTAAGGGTT CTGAGGAAAT AAATGTATAG ACCCTTATGT ACAGACCTGT 180
GTATAANCAN CTNNGGTATA TACATATAAG GATAGCTTTT TTGACCTATA CAGCTGTNCA 240
TAAAAGTAGC TGATATTAGT TAGGCCTGTG TCACCAGTTT GGNTTTTTTN CACTGGTNCA 300
TTTGGGATTT NNTTTTNGGT GGTTTAAAT GGCATATGCT AAGGTGTGTG ATTGGGAANA 360
AANNANNANN 370

SEQ ID NO:7420

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08661

SEQUENCE DESCRIPTION:

GATCTGTGTT TTAATGAGTT TCACAGTGTG ATTTTGATTA TNAATTGTGC AAGCTTTTCC 60
TAATAAACGT GGAGAATCAC AAA 83

SEQ ID NO:7421

LENGTH:394

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08662

SEQUENCE DESCRIPTION:

GATCCTCTCT TACCCCGTCC CCAGGTTTGA AACACATAGC CTCATTTCAA GGTGTAGCCA 60

GGTTCCCCCG ACTTTCCTCT GGGATATAAA AAAGGGGGTA AGGGGGCAAA GAGAGCCCTC 120
 TGGGACTCTC CTCCCATACA CACTACACTG CCCCTTCTCC CCCCATCAAA ACGCTCAGNG 180
 ACGTTGTGAT GATGCGACTG AGGATTATGC AACGTGGTCC AACCGGAGCG GNCAGCATGA 240
 CCAGCTGTCC AGGGGCTGNC TNCTGCCTTT TCTTTTGTA AAGCCANGAC CCTTGGGGAG 300
 TTTTAATNCT GTTTTGTACT TGNCCTGTGG GGNCTNCACT TGCTTTTCT ATGGGAGACA 360
 CTTTTNAAAT TTAACAAGNT GNGGGTTTTT TGNN 394

SEQ ID NO:7422

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08663

SEQUENCE DESCRIPTION:

GATCCCCATG CCTGAGGGCC CCTCGGCTGG CCTGGGCATG TGATGGCTCC TCACTGGGAG 60
 CCTGTGGGGG AGGCTCAGGT GTCTGGAGGG GGTGTGTGCC TGATAACGTA ATAACACCAG 120
 TGGAGACTTG CAAA 134

SEQ ID NO:7423

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08664

SEQUENCE DESCRIPTION:

GATCATGNGT TTCCTCATGA GGACAAATAC CTGATTTTGA ATAAAGCAGC ATTCAGTTGA 60
 AATAACAAA 69

SEQ ID NO:7424

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08665

SEQUENCE DESCRIPTION:

GATCAACATT TTTTAAAAA GAGCATTAATA GAAAGAATTG TGGTACAATA AA 52

SEQ ID NO:7425

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08666

SEQUENCE DESCRIPTION:

GATCACACAT TCAGACTGTT GTGTCTGTGG AGTTTTAGGA GTGGGGGGTG ACCTTTCTGG 60
 TCTTTGCACT TCCATCCTCT GCNACTTCCA TCTGGCATCC CACGCGTTGT CCCCTGCACT 120
 TCTGGAAGGC ACAGGGTGCT GCTGCCTCCT GGTCTTTGCC TTTGCTGGGC CTTCTGTGCA 180
 GGACGCTCAG CCTCAGGGCT CAGAAGGTGC CAGTCCGGTC CCAGGTCCCT TGTCCTTCC 240
 ACAGAGGCCT TCCTAGAAGA TGCATCTAGA GTGTCAGCCT TATCAGTGTT TAAGATTTTC 300

NTTNTATTTT TAATTTTTTT GAGACAGAAT CTCACTCTCT CGNCCAGGCT GGAGTN 356

SEQ ID NO:7426

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08667

SEQUENCE DESCRIPTION:

GATCGTCGCC CCTCTGCCAA CTGCGACCCC TTTTCGGTGA CAGAAGCCCT CATCCGCACG 60
TGTCTTCTCA ATNAAACCGG CGATGAGCCC TTCNAGTACA AAAATTAAGT GGACTAGACC 120
TCCAGCTGTT GAGCCCCTCC TAGTTCTTCA TCCCACTCCA ACTCTTCCCC CTCTCCCAGT 180
TGTCCCGATT GTAAC TCAAA GGGTGGAATA TCAAGGTCGT TTTTTCATT CCATGTGCCC 240
AGTAAA 246

SEQ ID NO:7427

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08668

SEQUENCE DESCRIPTION:

GATCCTTGCA GGAACCTAAG GATTACAGCA GCTGCAGATG GCAGGAGCTA CAAGCCAGCA 60
GCAGCCAATG CTCANTGGGG TACAAATGGC TCAGGCAGGT CAACCAGGGA AAATGCCAAG 120
TGGAATAAAA ACCAACATCA AGTCGGCTTC CATGCATCCC TACCAGCGGT GAGTGTGGCT 180
GGCAACCTCG ACTCCCTGGT GCTCTTGCA GAGTTGGGCA GTGAAATNNN NNNNTGCTCA 240
AGGCTCACCT AGGATGGGTA CAATAAAAAG AACATGGGCT TTCAA 286

SEQ ID NO:7428

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08669

SEQUENCE DESCRIPTION:

GATCACTAAC AGGTGATGGG CTTTGTGCCC ACTCCAGAGA TATTGTGGGA GACAAATTCT 60
TTTAACAGCC TGTCTCCCG GCATCAGGAG TCATTGAACA ATCATGGATT GTTGTGTTG 120
GGATTTTTTT TTTTNGGN TTNNTTTTGG GTTTNGNGN GTGTGTGTGT GNCCTGN 177

SEQ ID NO:7429

LENGTH:388

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08670

SEQUENCE DESCRIPTION:

GATCCAGGTG GTCCAGGAGC CCAGGACAGG CCTTTNCTGT GGGCCCTGGC CAGACAGGGT 60
TACCTGGTGA GGTGCAGAGA GTCCCTCTAG TGGCCATTTT GTATGGTAGT TGCTAATGCA 120
GAACAAGTTC TGTCTTGGGC TTAAATTGAC TGAAGACTTT AGGGGAAAG AATAGTAAAT 180

GCATGTAAAC AAATGGGGAC ACTCTGTTCA GGAGAATAAT CCGACTGGCA TTTGTGGCAG 240
 TTTTGAAT GTAAATGTAT TCATGTGTGT TCTTGTAAT ACGTGTGCT CAGATGTCCT 300
 TTGAAGTGGG AGGGAATCAA TCCGGGGATA ATTTCAAATG GAATAGAGTA TTTTGATATT 360
 GTTCATTAG AGGGTGATGT GTACACAN 388

SEQ ID NO:7430

LENGTH:392

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08671

SEQUENCE DESCRIPTION:

GATCCCCACT GTCAATGGGG GATTGTCCCA GCCCTCTTC CCTTCCCCTC ACCTGGAAGC 60
 TTCTTCAACC AATCCCTTCA CACTCTCTCC CCCATCCCC CAAGATACAC ACTGGACCCT 120
 CTCTTGCTGA ATGTGGGCAT TAATTTTTTG ACTGCAGCTC TGCTTCTCCA GCCCCGCCGT 180
 GGGTGGCAAG CTGTGTTTAT ACCTAAATTT TCTGGAAGGG GACAGTGAAA AGAGGAGTGA 240
 CAGGAGGGAA AGGGGGAGAC AAAACTCCTA CTCTCAACCT CACACCAACA CCTCCCATTA 300
 TCACTCTCTC TGCCCNATT CCTTCAAGAG GAGACCCTTT GGGGACAAGG CCGTTTCTTT 360
 GTTCTGAGC ATAAAGAGGA AAATAAATCT TN 392

SEQ ID NO:7431

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08673

SEQUENCE DESCRIPTION:

GATCTTTGGG AAGGGAGACT AGGGCAGGTG GAGACAGCGC AGAACCCCGG TGCTGGGTGG 60
 GAAGCATGAC CACACGGTGG GTGAGCAGCC CCCATGCACT GATGGTAAAT TCCCCTGTGG 120
 ACTCAA 127

SEQ ID NO:7432

LENGTH:353

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08674

SEQUENCE DESCRIPTION:

GATCTGTCTG GCATGTCAGG AGCCAGAGAT ATTTNATAT CAAAAATTGT CCACAAGTCA 60
 TTTGTGGAAG TGAATGAAGA GGGAACAGAG GCGGCAGCTG CCACAGCAGG CATCGCAACT 120
 TTCTGCATGT TGATGCCCCA AGAAAATTTC ACTGCCGACC ATCCATTCTT TTTNNNNNTT 180
 CGGCATAATT CCTCAGGTAG CATCCTATTG TTGGGGAGAT TTTCTCCCC TTAGAAGAAA 240
 GAGACTGTAG CAATACAAAA ATCAAGCTTA GTGCTTTATT ACCTGAGTTT TTAAATAGAG 300
 CCAATATGTC TTTATAANCT TTNCCANTA AAAACCCACT TGTCCCAAAG AAA 353

SEQ ID NO:7433

LENGTH:399

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08675

SEQUENCE DESCRIPTION:

GATCTAATTG GCTTTTATTA GCAATTCATG AGCCCGGCAG CATCCAGTCT ACAAATAGA 60
AAGGAGTGCC ACTAAGCTAG ACAGAATGGA TGGGTTTTAT GGCAGAAAAA AGTGAAGCA 120
AGCAAGAACA ATGAACAAAT TAATGGATGG ATTGTTTTAA GATTACATTT CTTTATGGG 180
AGTAAACAAA ATCTTGTTAG CCTAATGGAA TTTGGCATCA TCTCTGATT TCTCAGAAGG 240
TCATATCTTG TAAGTGAACC ATTTAGGTTT GGTGACCTGG NACCTTTGGC ATAANGTGAC 300
TCCATTTTGG GGCCTGCTGC CTTTTTCTTT AAAAANGGAG TGACACCNTA ATTTCCATGG 360
GNNGAGCACA CANNATGCCC TTGTNTTGCA GGACCTNCN 399

SEQ ID NO:7434

LENGTH:230

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08676

SEQUENCE DESCRIPTION:

GATCCTGACC ATATTCCTCA AGGTCTCCTT TTCCTTCCTC CAGTGTAACA AAATTCCCTG 60
CTGGCGTCCT ATGTAAAGAT AATCGGCCCT TTTGGACCT TTTGTTGGGN TCAAGAATTT 120
GGGTGGGAGA AAAGAAAGTG GGTTATCAAG GGTGATTGTA AATTTTCTGC AGCATTAAAG 180
CTGGCGCTTA ATAAGAATAA GTAATAATAA AGAAATTCT AACATTCAAA 230

SEQ ID NO:7435

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08677

SEQUENCE DESCRIPTION:

GATCCTGAAA ATAGCCCCGT GAAGGCAGAA ATGTATGTGA CTAGAACGAG GCCACATGAA 60
TAAGCCACTG CCCACTGGCA GGAGTGAAAA CTGAAGCGCT CTTACCTGA AGGACCCCAA 120
AACCATATAG AATAGAATAA CCAGGAGTTC AAA 153

SEQ ID NO:7436

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08678

SEQUENCE DESCRIPTION:

GATCTCACAA GCNCTTTCCC TCTTGGTGCC TCAGTTTCCT GACCTATGAA ACAGAGAAAA 60
TAAAAGCACT TATTTATTGT TGTTGGAGGC TGCAAANTGT TAGTAGATAT GAGGCATTGT 120
CAGCTGTGCC ATATTAAA 138

SEQ ID NO:7437

LENGTH:361

TYPE:nucleic acid

02104

TOPOLOGY:linear

CLONE:HUMGS08679

SEQUENCE DESCRIPTION:

GATCATGGCT AAAGATGACC TCTCTGGTGC TGACATCAAG GCAATCTGTA CAGAAGCTGG 60
TCTGATGGCC TTAAGAGAAC GTAGAATGAA AGTAACAAAT GAAGACTTCA AAAAATCTAA 120
AGAAAATNTT CTTTATAAGA AACAGGAAGG CACCCCTGAG GGGCTGTATC TCTAATGANC 180
CATGGCTGTC ATCAGGAAAA TGGTTGGGAG ATTTCTCAAT CCCTGAAAGG ATGAGGTTGG 240
GGGAGTTGCC CAGAGGAATC CCTGTTCCCA CTGATTTTAA TTAGCAAAAC ATCCTGTGTC 300
TTTTGGAGTA CGNTGTGTAA GTGCCCATG GGTGGCCTGT TNGGTCAGT TGCAGCAGTT 360
N 361

SEQ ID NO:7438

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08680

SEQUENCE DESCRIPTION:

GATCAAAGTG TAAACACCAT AGGGACCCNT TCTACACAGA GCAGGACTGC ACAGCGTCCT 60
GTCCACACCC AGCTCAGCAT TTCCACACCA AGCAGCAACA GCAAATNACG ACCACTGCTA 120
GATGTCTATT CTTGTTGGAG ACATGGGATG ATTATNNCT GTTCTATTTG TGCTTAGTCC 180
AATTCCTTGC ACATAGTAGG NACCNNGTTC AATTACTATT GNATGAATTA AGAATTGGTT 240
GCCATAAAAA TAAATNNGGT TCATTTAANG TNN 273

SEQ ID NO:7439

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08681

SEQUENCE DESCRIPTION:

GATCAGAGGA ATGTTATNTT GTTCAGCCTT CTGGTTGGTT CACAGTAGTG ATAGTATTGT 60
AAATACTCAG AGCAATCCTA CAAGAAGAAA ACTACATNAG CCCCACATG TTCCCCCAA 120
CATACCCCAT CACAGCAACT GAAAACAAGA GAAATGTTAG TTTTCTGTGG AAA 173

SEQ ID NO:7440

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08682

SEQUENCE DESCRIPTION:

GATCTCTTGA ACTCTGGGTT CTCCCAGCCC CTTGTCCTTC CTTCCAGCTG AGCCCTGGCC 60
ACACTGGGGC TGCTTTCTC TNACTCTGTC TTCCCCAAGT AAGGGGGCTC TCTNAGTGCA 120
GGGTCTGATG CTGAGTCCCA CTTAGCTTGG GGTCAGAACC AAGGGGTTTA ATAAATAACC 180
CTTGAAAAC TAAA 194

SEQ ID NO:7441

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08683

SEQUENCE DESCRIPTION:

GATCANATGA AGAAAAGGAG AGGTAGATAC AGTCAGTGTC ACTTCAGGAA AGCTATTTAA 60
AAAANCTTGA AATATAATTG AAAGAAGAAA CAACACCAAA NAAGCCTAAN CCTAGCCTCT 120
GANCANCACT AN 132

SEQ ID NO:7442

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08684

SEQUENCE DESCRIPTION:

GATCAATCTG AGGAGACTTA ATAATGATAT TNATTCTCCC AATTCATGAA TATAGTATAC 60
CCCTGTATTT ATTTGTNTTC TTGAATTTCT TTTATCATTG TTTGTAGTT TTCACCATGA 120
CAGTCTTGCA CATATTTTGT TAAATGTACA GCTGAGAATT TAATTTTCC TGGTGTACAA 180
TGCTAATAAA ATGGTGCTTT AAAAGAAA 208

SEQ ID NO:7443

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08685

SEQUENCE DESCRIPTION:

GATCCTCTAA GGTCTACAG TTTACTTCTT GTATTCTCCT TTGTAAGTCA TCTCCAAGAC 60
GATGTCCAAA TCCATCACCA TTAAAATTAA TAGTTTCCTC ACCCACAACA CTTAATATTT 120
TAAAAAANGA TACTTTTCAT TGTATTATAA TTACTTGATA CATACATATT TGCTCTGTGA 180
GTTCTTATT CATCATATTA GTGCCTGACA ATAAATGTGT GCTGGATTGA GCTGAATCTT 240
TAAA 244

SEQ ID NO:7444

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08686

SEQUENCE DESCRIPTION:

GATCCTGCAA TTCCACTTAT AGGAATTGAC CCACAAGAAA TGAAAGCAGG GACTTGAACC 60
CATATTTGTA CACCAATATT CATAGCAGCT TATTCACAAG ACCCAAAAGG CAGAAGCAAC 120
CCAAATGTTT ATCAATGANT GATTGATTGG CTAAGCAAAA TGTGATATGT NCCTAACGAA 180
GTATCCTTCA GCCTGAAAGA GGAATGANGT ACTCATACAT GTTACAACAC GGACGAACCT 240
TGANANCTTT ATGCTAAGTG AAATAAGCCA GACATCANCA GATAANTAGT TTATGNTTCC 300
ACCTACATGN GGTACTGNGA GTN 323

SEQ ID NO:7445

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08687

SEQUENCE DESCRIPTION:

GATCCTCCTG CCTCATCCTC CCAAAATNCT GGGATTACAG GCATAAGCCA CCGTGCCTGG 60
CCTCTTTAAT AATNTTNAAG ATACCCTAAA GGCTTGTGAA TATACAAGTC TACTGATAAA 120
TTATGTATTG TCTGGGAATT TGATAGTNAT TGTTTTAGAT AACTGGNTTT TACGCTGTGG 180
TAGNCNGGCT GTGACACTAG TGTTGCACAG GTGTAATTGG TCATCCTATG CCTTCACCAG 240
AATAACTTGG GAGTGGTGCC AGAANCTAGA GTCTACAATT CTCACTGTTT AGAGAGTGTT 300
ANTGNCATAC TGTGTATN 318

SEQ ID NO:7446

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08688

SEQUENCE DESCRIPTION:

GATCAAGATA GTAGTATTAT TACACAAGAA ACTTGGTCTG CAGTCTGGAA GCTTGTCTGC 60
TCTATAGAAA TGAAATGCA GCATGAAGTT GACATTGTGG AAATGAAAGT AATTGGGTAT 120
TAGAAATCTG AAAGTACTGT CATCTAANAG CAATTGTGAT TTTNTTGTA TTTGGTGTCA 180
CTGTTGTNCG GTGTCTAGNG TTANNGAATA CATGTNANCT TTCATGGTAT TTNGCCTTTC 240
TTAANTTTTT TTAATAATTA ANCTTTCTAA CCTATGTATT CAACTTCTGT ATTTATATNT 300
NATCAGTGGT TCATGTN 317

SEQ ID NO:7447

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08689

SEQUENCE DESCRIPTION:

GATCATCAAA GAAAGACAGG GTGACCTGAG GATTATATGT TCAGCCAAGC TCCCCTCCAA 60
GCATAAAGGC TACAGATAAC CATTTGTACA TATTCAGGAA CTGGAGTAAT GTGATTCCAA 120
TGAGCCTGTC TTGAAGGAAC TCCTAGGGGA TTAACCTCAG CTAACCTGGG AAGTTATCTG 180
GAGAAACCAC AACAGAAGGA CTGGTTGTAG TTCGAGGCTG TAGTCAGCTA TGATTGCACC 240
ACTGCACTCT AGCCTGGATA ATAGAGCAAG ACTTTGTCTC CAAA 284

SEQ ID NO:7448

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08690

SEQUENCE DESCRIPTION:

GATCCCTAGT ATAACACATT CAGTGTTCCT CTTTCAGTCT TACTACTTTN ACCGCGATGA 60

TGTGGCTTTN AAGAACTTTG CCAAATACTT TCTTCACCAA TCTCATGAGG AGAGGGAACA 120
 TGCTGAGAAA CTGATGAAGC TGCAGANCCA ACGAGGTGGC CGANTCTNCC TTCAGGATAT 180
 CAGGAAACCA GACTGTGATG ACTGGGAGAG CGGGCTGANT GCAATGGANG TGTGCATTAC 240
 ATTTGGAAAA AANTGTGAAT CAGTCACTAC TGGANCTGCA CAANCTNGCC ACTGNCAAAA 300
 TTGACCCCCN TTTGTNTGAC TTCN 324

SEQ ID NO:7449

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08691

SEQUENCE DESCRIPTION:

GATCACCTGA GGTCAGGGGT TCGAGACCAG CCTGGCCAAC ACGGTGAANC CCATCTCTAC 60
 TAAAAATGCA AAAATTAGCC GGGCGTGGCG GCACATGCCT GTAATCCCAG CTACATGGGA 120
 GGCTGAGGTG GGAGAATTGC TTGAACCCAG GAGGCGGAGG CAGAGGCTNC AGTGACCCAA 180
 GATTGTGCCA CTGCACTCCA CCCTGGGCAA CAGAGCAAGA CCCCATCTCA AAAATAAATA 240
 ANTATATATA NAAAAATAAA NGCTATTTCT NGNNNNTTTC ACTATAAAGT TTTGCTTTAT 300
 TAAAAAGCTA NTANGCAGCT ATTN 324

SEQ ID NO:7450

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08692

SEQUENCE DESCRIPTION:

GATCTTAAAC TCAGTAAGCC ACTATCTGCA ATTTTGTACA TTATATAGTA TTTTGAAGAT 60
 ATGGAACCTT ATGAAAAAAA AATAGCAAAT NAGTTCCTTT TCCCCAGAG GGGAAAGTTA 120
 TGTNCTGCAA ATAGTGTGTG TCTTATTTTA CTGTTGANCA GCAATNGCNN NTTATTTTTT 180
 NATTGCCTAG AACTTCAACA TGTTGTATAG GAATCCTGTA GTGCCACTAG TTAAATGCCG 240
 AATTCTCATC TGGATGTTAC CATCAAACAT CAGTACACTT GTCATTTTAC ATGTGTTTAA 300
 TGTGACAGTT TTTCAGTACT GTNTNN 326

SEQ ID NO:7451

LENGTH:38

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08693

SEQUENCE DESCRIPTION:

GATCTNGTGG GCATAAATAA AGGTGTCATA AAGACAAA 38

SEQ ID NO:7452

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08694

SEQUENCE DESCRIPTION:

GATCTTAAGA AGTGCTTTGA AGGGTTAAGA ATCAGGGGTC CAAGAGAGAC CCCAGTCCCT 60
CAATAAAGCC ACAAGAGCCC AAA 83

SEQ ID NO:7453

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08695

SEQUENCE DESCRIPTION:

GATCTACACT CCAGGCCGGA AAGAGCAAGG GGAGCCCATG ACCCCTCGCC GCACGCCAGC 60
CCGCTTTGGT CTGTAAGCTG AGGCTGTCCC CAGAGAGGAT GGCAGCAGGT ATTGGGTCCT 120
CAGCCTTCTG GCGGGAGCCT GAGGCTGCGG ACAAAGCCCT TTAATCTAAG GACTTTAATC 180
TGTNCATATN ACGGCCCCC AGGGCAGTTC CTGCTGGACC AGACTCTNTG GCAGAGGAGG 240
TGGAGTTCTT CCATGCAGGA GCACGNCATG GCGGGAGCGG GGCTGCAGAG TATCCGNGGT 300
GCTGCCGNGG CACGGNGAGG TNGCTNGACC CATCGCATCT AAAANTAGGA N 351

SEQ ID NO:7454

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08696

SEQUENCE DESCRIPTION:

GATCTAAGGT TTTAAAAGAA TTTGGTTTGA AAATATACAG TTGTCTTGAA GGAAA 55

SEQ ID NO:7455

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08697

SEQUENCE DESCRIPTION:

GATCTGTTCT GTTTCACCAT GTAACACACA ATACATGCAT GCACTGTATT AGTGTTAGAA 60
A 61

SEQ ID NO:7456

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08698

SEQUENCE DESCRIPTION:

GATCCCATTT TCCTCTGACG TCCACCTCCT ACCCCATAGG AGTTAGAAGT TAGGGTTTAG 60
GCATCATTTT GAGAATGCTG ACACTTTTTT AGGGCTGTGA TTGAGTGAGG GCATGGGTAA 120
AAATATTTCT TTAAAGAAG GATGAACAAT TATATTTATA TTTCAGGTTA TATCCAATAG 180
TAGAGTTGGC TTTTNTTTT TTTTGGNCCA NGGGGGGGGG TTTTTTCCCC NTGCCCCCCT 240
GGGGTTTTTN NANTCCNGT NNNAAAANAA ANN 273

SEQ ID NO:7457

LENGTH:363

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08699

SEQUENCE DESCRIPTION:

GATCTTAACC AGTCGAGTGG AGTGTACATT GTCTGAATAC AGGNTGCACA ATGTTGTCAA 60
TCCTGAAAT GGTCTTCTT TTTTGTAGA TATGTGAATG AAGTGTTGGT GTCCTACCA 120
AGAGGTGGCA CCTAAGGGTT CTGAGGAAAT AAATGTATAG ACCCTTATGT ACAGACCTGT 180
GTATAACAA CTNTTGTATA TACATATAGG ATAGCTTTTT TGTACTATAC AGCTGGTACC 240
ATAANAGTAG CTGGATANTT TGGTTAGGNC NGGTTGTCCA CCAGTTTTGG NNTTTTTTTT 300
CACTTTGNTN CATTTTGGGG GATTTTCCTT GTGGGTTGNN TAAAAANTTG CATATGCTTA 360
NGN 363

SEQ ID NO:7458

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08700

SEQUENCE DESCRIPTION:

GATCCGTATT TCCAATAAAA TCCCCTACCT GAATATTCAA GTTAAACATG TCCAGAATAC 60
TTACTGATTT TATTGTTAAT AGCCACTATT CTGTTGTCTG GAATTTAAAC CTGTATAACT 120
AATTTGCATC CCTTTATCTT CTTAGTCAAT AAAACCTACA ATCCTCTTTC AAA 173

SEQ ID NO:7459

LENGTH:349

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08701

SEQUENCE DESCRIPTION:

GATCACCCCC CAACTTGCCC TTCAAGTTCT ACTTCAGTTT GATAAGGCTA TAAATGCAGC 60
ACTGGCTCAG AGGGTCAGGA ACAGAGTCAA TTTCAGGGGC TCTCTAAATA CGTACAGATT 120
CTGCGATAAT GTGTGGACTT TTGTACTGAA TGATGTTGAA TTCAGAGAGG TGACAGAACT 180
TATTAAAGTG GATAAAGTGA AAATTGTAGC CTGTGATGGT AAAAATACTG GCTCCAATAC 240
TACAGANTGG ATAGAAAANN TATGACTNNT TTACACCATC TTCCTGTTAT TCATTGCTTT 300
TTGAAGAGNA GCATAGANGA GACTTTNTTN TTTTATNCTN GGAATTTTN 349

SEQ ID NO:7460

LENGTH:395

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08702

SEQUENCE DESCRIPTION:

GATCTGGAGT AAGGAATATT GTCATCACCT GGATTTTGAG AAAGAAAAAT AACTTCTCTG 60

CAAGATTTC AATTGAGAG AATTCCTGAG TTGATAGCTC TAAAGGCAGA TATGCTGTAT 120
 TTGCCTACTT TAACCCATTT TTCAACCTGT TTGTTTTTTA ANNGGNTTCA CTAAGGGTTG 180
 ATATGTACCA TTGTATGGGG CAATTTTAAG TCAGCTAAGG CAATAACCTT ATGCATGAGC 240
 ATTTCCCAGA CTTTCATGAA GCTGTTGAGG TCCTAGGCAA TTAATGCAGC AGTTGCGATA 300
 AATAAANGNC NTCTCACCTA AGNNTCCNTT TTCTTCNATA ACCATGGTTC CTGGNCATGN 360
 TTGGGAGGCT NCTCGGCTTT AGGGNAANGG GGTTN 395

SEQ ID NO:7461
 LENGTH:347
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08703

SEQUENCE DESCRIPTION:

GATCGCCTCC CAACAGCAGA TTTGACATT ACCTGAGAGT CTTGATTTTA GGCTTGTTTT 60
 TTGTAAACCC ATGTGTTTGT AGAGATTTTA GCGTCTTTCG GATATCTTCT CACCTATGTT 120
 CCCTGGCTAA GAAGTCAGAG GTAGCCAATG TTTCTTAAA TTCATTTTAA AACTTACCAT 180
 TGGTGATAT GTTCCAGATG GCAGATGCTG TCAATAATCT CACCATTGAT GACCTTTGTG 240
 TATGTAGTTC TTGCATCCTA TACTGGATAA GCCTGTTTTA ACCTGCTATG ATGGGTGCTT 300
 TCCATTGCTT CNTAATCTTC ATGGAGGGTT GCCATGCTTT TTGCCNN 347

SEQ ID NO:7462
 LENGTH:274
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08704

SEQUENCE DESCRIPTION:

GATCGGNATG TAATAACAGC ATTAACCTAC AGACCTTGGA GCCTAAGCCA TACAGGAGAT 60
 GGGAAACCAC GCTATGATAC TTNCTGGAAA CATTTTATAT TTNTAATGAT GGACATTTTN 120
 CTCGATTGGA GCATGCATAA TANCTGTGGG TACCTGTGTG GAATTTTANC TTTCTCATG 180
 CAAAAGGATT TTNTATCCCC GGCCTACTTG ANGAAGTGGT CAGCTAANGG NNTCCAGGTT 240
 GTTGGTTGGA CTGTAATACC NTTTGATGAN AAGN 274

SEQ ID NO:7463
 LENGTH:69
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08705

SEQUENCE DESCRIPTION:

GATCAGAAAC TTGCATATGC GTGAAAAAAG GAAGAGCAGC AGAAAATAAA TAAATGACAG 60
 GAAAGCAAA 69

SEQ ID NO:7464
 LENGTH:199
 TYPE:nucleic acid
 TOPOLOGY:linear

CLONE:HUMGS08706

SEQUENCE DESCRIPTION:

GATCTATAGC AATGTGATTT TATTTTTAAA AAGAAAAGCA GTGTGTTTTT TTTTTTTGTT 60
GTTTTCTTTT GCTTAAGCAC TTCATCAATT GCTTTATTCT GTATCTGCGA AGTNATCTGC 120
AATCTCTNTT GNNCTTTNTA AAATTTGGAT NTGTTATAAA AATTGNCCAN ATTGGAAGGT 180
GTTTCAGTTA AAAAAANAN 199

SEQ ID NO:7465

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08707

SEQUENCE DESCRIPTION:

GATCACAAAC TTGGAGGGCT GTATGGTTTT TCATTTAAGA AAGTAATTGT CGTGCAATAA 60
AGTTATTAAG CTTGTTTAA GAATATTTTT ATTTTGTACA TCAAGTGGAG TTGGAAATAG 120
TTGGTTTCAT AATGATATAT TTCAAAAGTA TCTTGAAGTC ATCTGGTTCA TTCACTACC 180
CAGGGCACAC ATTCCTCCTG TAACATCCCA AGTGGTTATT AAGCAAAACA GATTTATTTT 240
ATTTAGAAAA NNTTAGTATG ACTGATTTGC TATTGATTTT GTACTTCTAT AAATNAATGT 300
GGATACATGC TATATTCAAA 320

SEQ ID NO:7466

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08708

SEQUENCE DESCRIPTION:

GATCACTTAC AGGTGCCCTC TCCCCCAACA GCCAGAAAGG GAAAACAGAG CCGAGTTTGG 60
CCACTGGGGC CTCCACAGCC CTCTGGAAGA AGGGGCTGAC TGATAGGAAG GCACTCCTCT 120
GGTGTTCAC TGGCCAGACCC CTGTGGGCTC AGAAGACTAC CTAGACCCCA TGAAGAAAGA 180
CTCTAGACAC ATTTTATAA TCAGAACTT ACAGTTTATT GTGAATAAAC CACTCAACTT 240
TGAGCAGATG ACATTGCCTC ANTTAACTTT TTCGTTGAAG AAAACAAAG ATATATGGTA 300
AATTCATGAA A 311

SEQ ID NO:7467

LENGTH:434

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08709

SEQUENCE DESCRIPTION:

GATCATCAAC AAAGACTTGT TAGAAAGGTC TAGTCTTAGC ACTTGGCAGT TAATCTAGGG 60
AAGATGAATT AAATGGGTAG ATAGTGATGC ATACCTGTAT TCACTGATGT ATGTTTAAGG 120
GATTTGGGGG GGATACCTCA GTTCATGTGG AAGGGACAGT CTCGGTGTGT CCCATGAATA 180
ACCTTGGAAC TGCAACAAAT GGTGTGTGCT CAGAAAAAGT CTTTCATGGT GACAGGAAGA 240
CAGTTTCCCT GGAGCTGGCC ATGAAGGCCT TAGAAGCCAT TTCTGGTGTC TGGTGGGTAG 300
CAGGCATAGA GATGATGTNC CGAGGTCCCA GTGAACACCA GTAGCCAAAN GAATTGTACT 360

ACCTTNTATC CATTANTTNG GGGAAGGTCC TTCCCTNGGG NAACCAATGN CCTTTTTTGN 420
TGGGCCAAAA TTTN 434

SEQ ID NO:7468

LENGTH:414

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08710

SEQUENCE DESCRIPTION:

GATCGAGCTG TGGACTTATA CCTGTGTGCN TGGTTTACAG GTCCAGTGGT TCTTCAGCCC 60
ATGACAGATG AGAAGGGGCT ATATTGAAGG GCAAAGAGGA ACTGTTGTTT GAATTTTCCT 120
GAGAGCCTGG CTTAGTGCTG GGCCTTCTCT TAAACCTCAT TACAATNAGG TTAGTACTTT 180
TAGTCCCTGT TTTACAGGGG TTAGAATAGA CTGTTAAGGG GCAACTGAGA AAGAACAGAG 240
AAGTGACAGC TAGGGGTTGA GAGGGGCCAG AAAAAATGA NTGCAGGCAG ATTTCTGTAA 300
ATCTGCCACC ACTTTATANC CAGATGGTTC CTTTCACAAC CCTGGGTCAA AAAGAGAATA 360
NTTTGGCCTA TNATGTTANA AGGAANGCAG GNNGGTGGGT TNAANTAAAA NTTN 414

SEQ ID NO:7469

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08711

SEQUENCE DESCRIPTION:

GATCAGTATT TTTAATCAAC ACCTGAGAAC TGTTACACCT TTNATTTTGT CTTNAGGAA 60
ATCCCTGTCT TTCCATTTTT TCATGTAAAT NTGCACAGT TACTTGTTCA TATGTAAATA 120
TTTTACTTTC AGAAATNAAG TTTTAAATTG CTATTGTTTT ATATAGGATT GAAAGAAAAT 180
NAACTCCTTT ATTAAAAACA AATTTATCTG TAAA 214

SEQ ID NO:7470

LENGTH:418

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08712

SEQUENCE DESCRIPTION:

GATCCATTTT CTCAGGACTC AGTTAGGTGT GCCCAGACGC ACTGACAAAA TNACGTGACT 60
TCAGGGAAGC CTGGACACCC GAGGCACCTG GACCAGCTAT GGGTAGTTCT GTGGGTGGAA 120
CACATTCTGT GTAAGAGCCC CACTGAGGGC TCTGCAGCGG AGTGACAGCA ACCCCAGAGA 180
TGAGGCACCA GAGAGTGCCA CTGCATGAGA CACCTGTGAC CATTCGAAGT CTGAAATGCG 240
GGGGGGGAGT TTCATTTTAA AGTGAAGACC AAAAGCCCTT TAAAAATAAT AGTTTTTTAT 300
CATTTTATAG TAATCAGCGG NNTCTCTTTT ACTAATATAC TCATTCCTNT TGCGTATGAT 360
TGGNCTTTTG GAGCTACATG CTCCNACAAN NCTGTATCTT AATTGGTTAA CTTGTTAN 418

SEQ ID NO:7471

LENGTH:422

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08713

SEQUENCE DESCRIPTION:

GATCTTGGCG TTGTGGTAGA TTGCCTTCCT GTGCTCACCA ATTGTTTACA GGAAGAAAAA 60
CAATATATCT CACTTGGCTG CTGTGTTGAC TTGTTGCCTC TAGTAAAGTC ACTACTTAAA 120
AGCAAATTTN AAGAATATGT TATAGTTGGT TTAAACTGGC TTCAAGCAGT CATTAAAAGG 180
TGGTGGTCAG AACTATCATC CAAAACAGGA ATTATAAATG ATGGAAATAT TCAAATTTTA 240
AAACAACAAT TAAGTGGATT ATGGGTACAG GANAACCATC TTAGTTTGGT TCCAGGATAT 300
ACTGGTAATN TAGCTANGGG TGTAGNTGCT TTTTTCTTT CCAGTTCNT TGNNGGATTT 360
CCTCTNCCTG NGGGGCATTT TGGTTTTTCA ANACCNTCCC NTGGACCTGT TTTANTTTTC 420
CN 422

SEQ ID NO:7472

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08714

SEQUENCE DESCRIPTION:

GATCGCCTTA ACTACTGTAA ACATAGCCTA TTTTGTGCT TAANATACTG AATGGAAAAC 60
TCCATTGTGT GTTGTGGGAC TGTTTTGGAA ATATNNGTT AAATGTGTGT TAATTTGGCT 120
GTAATGGCAT TTAAAGCAAA CAAACAAACA AAAAAAGCTG TGAAAATGGC CTTGGAGCAT 180
TATCTTTAGT TACTTGAAGA GTTCTAGTT TTTTAAAAT ACAGTTTATG TTAAAATAAT 240
TTTANTTAAT TTAGAGANGC CAATCATTGT CTGNGGGGAA ACCGGCCTN CNTTTTGGGN 300
TTNCNTTTN GTGGGCCATT GGTGAGGTGA GTGCCTNTN CCCGTTTCNT TNGGTTTCN 359

SEQ ID NO:7473

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08715

SEQUENCE DESCRIPTION:

GATCTTTAAA GTATTTTTTA GGCACATTTG TGACAAACAA CTAATTGATA TTGAAATCTC 60
CNTCAGCCAT TAGAAGCTAT CAAATAAAGT AGGTGTAAAA ACAA 105

SEQ ID NO:7474

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08716

SEQUENCE DESCRIPTION:

GATCAAGTAT GCTAATNTTA AGCAAATGTA AAAACTCATA AAACAGGTAA ACAGTGGGGT 60
GATTTCAATTT GCCATAATTC ACATAAGACG AATTTTAATC TAAA 104

SEQ ID NO:7475

LENGTH:340

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08717

SEQUENCE DESCRIPTION:

GATCCTTGTT TTTAAGTTAC TTTCGATGTG TATACGAACA AAGACCAGGG AGAAACAGAA 60
CTTTTAAAC TATAGGCTGC TGTNTTGGGG CCAGAAATAA GGTGACAAGT AAAGACTTTT 120
ATAATACCTA CCTTCAAANT TAGAATCAGC AGCACTGTAC AANTAAAGTG CCTGTGCTTC 180
ACCTCACACC AAGANTCTTG CCTAACCTG TCAGAGTGCC TAATATCCTG TGGTGATTAT 240
GTATAATGAA ACAGTCTTAT TTTGTGCTCT TTGGTTTCTT AAAAGGAAAG CTTGTTTTCT 300
TTCCTTTATC ATTACAGAGG TATGTCTTTG GTTCTTANTN 340

SEQ ID NO:7476

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08718

SEQUENCE DESCRIPTION:

GATCTGTGAA AAAATACAGT ATTGTAAATC CAAGACTCTG ATACTGAATT TAAGTTATTT 60
CACAGTTGTA GCTACACAGT AAGTAGCTTG GTAGATAGTT ATTGANTGTA TTTATGTAGT 120
GTATTAAGAA GCTTATATTA CTACAAAAA CTTATTTTAA TATATNTNNN TATNTNNGTN 180
TTATTTATN 189

SEQ ID NO:7477

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08719

SEQUENCE DESCRIPTION:

GATCTGTGTG ACAAATNAT TTCTTAGCTA TAATCAGCAC ATCACTTAGT TCAAACAAAA 60
TTCCCAGCA AATGTTAGAT AGTAGGTATA TCAGTCACCT GGGGAGTTTT CTTCATAATA 120
TGCATATTCA TCTNGTAATG CATACATAGT TATCATCCTC CTTCTCAACC CATCTCCCTA 180
ACCCACATG CTTGCCAGT CTTGAAGGGA TAAAGTGATT GTAATAGTGT TTNACTNCTC 240
TCTGTTCAAT TTANTGTGAT ATAATTCTAG TNTAANNNTA TTTNGGACAG TNGCTTAACC 300
ATGGTCATAA GAGGATTTGT ACTATAGATT ATCTTCNGGG GN 342

SEQ ID NO:7478

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08720

SEQUENCE DESCRIPTION:

GATCTTTGTC AACCAAAACA TGTATTTTCA ATAAATTGAG ATTCCCAGTT CAAA 54

SEQ ID NO:7479

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08721

SEQUENCE DESCRIPTION:

GATCTGTTTC CCTTTCACAT TTTCCCCATT TTGTGAGCAT TTCCTTACTT CCTAACATGA 60
CAAAATATTT CAAACTAAA 79

SEQ ID NO:7480

LENGTH:281

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08722

SEQUENCE DESCRIPTION:

GATCCCCCTG GCCTGGAGGC AGCAGCTGTA TAAACTCTAC GAGGCCGACT TTGTTCTCTT 60
CGGCTACCCC AAGCCCGAAA ACCTCCTCCG AGACTGAAAG CTTTCGCGTT GCTTTTTCTC 120
GCGTGCCCTGG AACCTGACGC ACGGCGACTC CAGTTTTTTT ATGACCTACG ATTTTGCAAT 180
CTGGGCTTCT TGTTCACTCC ACTGCCTCTA TCCATTGAGT ACTGTATCGA TATTGTTTTT 240
TAAGATTAAT ATATTTTCAGG TATTTAATAC GAAATGTGAA A 281

SEQ ID NO:7481

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08723

SEQUENCE DESCRIPTION:

GATCTGAGTC CAGGCAGTGT TTTTAAGNGA TATGAGTTAG TAGTGAAAAAT TGAAAAGGAT 60
ATTTTACAAC CAAATACAGG TTTNNTGGTG TTTTTGAAA AATCCAAAGA TTTGGCAACT 120
CGACCTAGGC TCCGACAAAA CCACAGTTGT TGGGAGCTGA GCCGGAGCCA GAACTCACAA 180
TTCACCGTGG CCCGGCCACC CATCCCCACC ACTCCCGTGG GCTCCTGACC AAGCACCACG 240
TGCCATTCAT CATGGCTTGC TTTTAGTGTT TTTGGTGTTT ATCTTAAAGT ACAGCGAAGA 300
AGAAAGGGAA GTATTTNTTA GACCCN 326

SEQ ID NO:7482

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08724

SEQUENCE DESCRIPTION:

GATCTGGATT TGGTAAAGGT TGACTTAATT GAACTCTCTG AAAAATGCTG TAGTGACTTT 60
AATTTGCACT CAGAATTAGA GCGCTCATTT TTGTCAGANC CATCATCTCC AGGAAGAACC 120
AAGACTACTA AAGGATTCAA ACTTGGGAAG CACAAGCATG AGACCTTTAT AACGTCAAGT 180
GGAAAATCTG ANTACATTGA NCCTGCCAAA AGAGCTCATG TTGTGCCACC ACCAAGAGGA 240
AGGGGCAGGG GTGGNTTGG ACAGGGTATA CGACCTCATG ATATTTTNGG TCAGNGNAAC 300
CAGNNCACAN GTNGACCACC ATCTNTGCNT N 331

SEQ ID NO:7483

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08725

SEQUENCE DESCRIPTION:

GATCGGAGTC GCCAGGCAGT ATATCCAGTT AGAACTTCCG GGCTTTTGCA TTAGCTTGTC 60
TGATGCTCAT GCCCCACTCA GAGAAAAGAC ATCAGCAAAT TAAGAATTTT CTGGGTTCCCT 120
GTGACCCTCA GGTTATTTTA AAGCAATTGG AAGAGCATAT GAACACGGGC CAGCTAGCAG 180
GATTTTCACA TCAAATTAGA AGTCTGATTT TGANTAATAT CATCAATAAG AAGGAGTTTG 240
GGATTTTGGC AAAGACCAAA TACTTTCAA TGTGAAGAT GCATGCGATG AATACCAACA 300
ATATCACTGA GCTAGTGAAC TATTTGGCAA ATGACTTN 338

SEQ ID NO:7484

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08726

SEQUENCE DESCRIPTION:

GATCCGCCCT CCTTAGCCTC CCAATCCTCT CTAAAAAAG TGATAGCTCA GAAATATTTG 60
TAAAAGCAAG GTTTTTATTT CATTTTGGCT CTGTCATTTT CAGAGGCAAA GAAGTTGGCC 120
TGTAATAATAG AGTGCTAGAG CTCTTACGCC CCTCCCCTTC TTCCCAACTT CCTACTTCCT 180
AGCCCTTTTA TCAACTCCTA GAATAGTTAA AGAGAGACAC ATCTAGATGG GATGAAAGGT 240
GCCCTAAGCA GGAGAACCTG ANCAAAAGGC TAGAGGCATG GGCCAGGTAA AATTTGGGGC 300
CTAGAGTGAA GNCTGTGCTG TCGTTAAGNG CTTTCGAN 338

SEQ ID NO:7485

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08727

SEQUENCE DESCRIPTION:

GATCACAGTG ACAAAGAAGA TGAACAGCCT CAAGTGGTGG TTTTAAAAAA GGGAGACCTG 60
TCAGTTGAAG AAGTCATGAA AATTAAAGCA GAAATAAAGG CTGCCAAAGC AGATGAAGAA 120
CCAACTCCAG CCGATGGAAG ANTCATATAT CGAAAACCAG TCAAGCATCC CTCAGATGAA 180
AANTATTCAG GTTTAACAGC AAGCTCAAAA AAGAAGAAGC CAAATGAAGA TGAAGTAAAT 240
CAGGACTCGG TCAAAAAGAN CTCACAAAAN CAANTTAANA TTAGTAGCCT CCTTTCTTTT 300
GACAACGAGG ATGAAAATGA GTAAGTGTA TTTNTTTN 338

SEQ ID NO:7486

LENGTH:302

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08728

SEQUENCE DESCRIPTION:

GATCTTAATT CATATCTTGA AGATAAAGTC TACCTTACAG GGTATAACTT TACATTAGCA 60
 GATATACTAT TGTACTATGG ACTTCATCGC TTTATAGTGA GTATTTGTAT AGTTACTGGC 120
 TTTTTTCTG TAGTGTGAG AATGATTTT AAAACTTTGT CTTGAATTTA AATCAGATTT 180
 GCATTTTGG CTTATCAAAT AAAAATGAAA GGAATTCCTT TATACAAGGT GCCTTTTGTA 240
 ACAAACCTGC ACGTTGTGAC ATGTACCCTA AAACCTAAAG TATAATANTA ATAANNTTNA 300
 AA 302

SEQ ID NO:7487
 LENGTH:334
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08729

SEQUENCE DESCRIPTION:

GATCAAAAGT GAATAATGTA TGAATGAGAG CTGTAAGAAG GATTTTNATT TTGTTATAAT 60
 TTAGTTACCA TTTTCAGTGT TATTTCAAAG GTTCTTTGAA GAATTTTGGG GCAGGGCATC 120
 AGATTAGAGT TTTAAATTT GAGTATTTTG GATATCAGTG TTCCTCATGA AGATATACAT 180
 GGATATNCAA TTTTGATGGC TTCCAGATTT GTAAGATTTT ATGTTGTATA TACCATTCTA 240
 TTAAGAAACA TGTCCACTGT GCTTTCAAAC ATAGATAAAG CATGATAAAG ATTATNATTT 300
 AAGATATACT TGTATTTATA CCTCAGATAT TCTN 334

SEQ ID NO:7488
 LENGTH:337
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08730

SEQUENCE DESCRIPTION:

GATCAGCTGG ATACTCNTGT NACCAGAATT CCAAAGGTTC TGATAGAATC AAAGATGGAT 60
 ACAAAGTGAA CTCACACATA GCTAAGCTGC AAGAGTTATG GAAAACTCCC CAAAATCAAA 120
 CAATCCACCT CTCTAANTCA NTGATGGAGG CGTCCTTTTT CAAGCATCCA GACCTCACCA 180
 CAGGCCAGAN GCGTTACCNG TGCAGCATTG CTAANTCTA TAATGCAAAC TATCTGANGA 240
 TGTTAATGNA GNGGCAGTAC ATGCACGTNC TTCAGCACAG CTCACAAAAG CCAGGTGTCC 300
 TCACTCATCA CAGNNGCCGC CTTNGCTCCC GTTTATN 337

SEQ ID NO:7489
 LENGTH:292
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08731

SEQUENCE DESCRIPTION:

GATCATTGAG AACACTGNAC ACAGCAGCTT CAGGCAAAGG GAAAAGAACT AAATGAATTC 60
 CGGGAAAAGC ACAACATTCG TCTCATGGGA GAAGATGAGA AGCCAGCAGC CAAGGAAAAC 120
 TCAGAAGGGG CTGGGGCTAA GGCCAGCTCA GCTGGAGTGT TGGTCTCCTA GGGACCAAGG 180
 CCTTTGCATT TTTTCTACC CTGACTCCCA CTTCTAATTT CTCTTTATTG TTATTATTAT 240
 TATTTTCTCT GCTATTGTAA TATTTTTTTG TTAATTAAAT GTTTTGGTTA AA 292

SEQ ID NO:7490

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08732

SEQUENCE DESCRIPTION:

GATCAACTGC AAACAGGCAC GAAGGAACTT TTTTGGGTGA TGAAAAATAA AACTTTGGAT 60
GTCGAACATA TTTTGAAACT AGATTGCAAT NATAGTTGCA TAACTNTATA CATTATTAA 120
AATCGTGGA CACTTACAAA 140

SEQ ID NO:7491

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08733

SEQUENCE DESCRIPTION:

GATCCGGTCT CCCCCGCCCC CCGGCTGCAG GGTGGATAAA GAGGAAGATG TGAAGAGGAG 60
GCAGACAAAA GCAAAAGGAC ATCCTGTCAG TAGGAAACGG CCGAATTACA ATTCAGATGT 120
GCAATGTTTG CATAAGTAAA CTGACACGGG ACTATTATAT GCAGAANTCC ACGTGCAAAA 180
NTTTTCAGAC ACACCTTTGT ACCTCTNCCT AATCCTGCCC TGGTAAAATG GCGGTTATCA 240
GTGCAAGTTT GAGGATACAT ACAGCTGGAA ANTGGNCATC ACCAAACTGG ACTCCAGAAA 300
GTNCTGTCTA GGATTTTATT AGACTGCTTT TTTNCAN 337

SEQ ID NO:7492

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08734

SEQUENCE DESCRIPTION:

GATCTATTTC TCAGTAATNA GTGTGTGCCT CATGCCTGTT TCAATATTGG GTTTTGGAGA 60
CANTATTGTA CCAGGCCTGT TGATTGCATA CTGTAGAAGA TTTGATGTTT AGACTGGTTC 120
TCCTTACATA TACTATGTTT CGTCTACAGT TGCCTATGCT ATTGGCATGA TACTTACATT 180
TNTNGTCCTG GTGCTGATGA AAAAGGGGCA ACCTGCTCTC CTCTATTTAG TACCTTGAC 240
ACTTATTACT GCCTCANTTG TTGCCTGGAG ACGTAAGGAA ATGNAAAAGT TCTGGAAAGG 300
TAACAGCTAT CAGATGATGG ACCATTGGN TTGTCAN 337

SEQ ID NO:7493

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08735

SEQUENCE DESCRIPTION:

GATCGGCCTG CGAAAGGATA CTGTGAAATN ACTAATTAAC TAATAAACCT GTCTCAAGTT 60
GAGGATTTGA AGAAA 75

SEQ ID NO:7494

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08736

SEQUENCE DESCRIPTION:

GATCTGGGGT ACTTGGCAGG GCTTCCCTCA GACAATACCT TAGAGAGTCA CAACCATTCC 60
AGGGTCTGGT CTACCTCACA TCCTCATTCA TTGTTGGATG TGCTTAGCAT AGCCAGAGGT 120
GTCTTCTCTT TGACAGACTT GCTATCTGAA AAATAAACCA GGACACCAAT TTTTTCAT 180
ATAATAGAGG ACATCCCTTC CCAGCTATAG GAATGCTTGG TATCCTTCCA AGAACTCCTC 240
CTTTAGAGGA GCCTCACAGA AGTTGCTGGG TAAACATGGG CTCAAACCAA GGAAAGTCAG 300
GTAACCTGGG TGGNGGTTAT CCCACCACCA ATGGCAGGGG GTN 343

SEQ ID NO:7495

LENGTH:95

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08737

SEQUENCE DESCRIPTION:

GATCAATATT GTAAAGAATT TATTCTGATA AATNAGAAAC TGGATATAAT GTCAAAATAG 60
CTATTTTCTC AATAAAAATC TCAAATCTCC TGAAA 95

SEQ ID NO:7496

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08738

SEQUENCE DESCRIPTION:

GATCCTCCCT CCTTGGCCCC CCAGTGTTGG GATTACAGGC ATGAGCCACC GTGCTTGGCC 60
TGGAATNAAT TTTTATTGTA AGTTATTCTG TATCTCCAGT GTTGGCATAT GCTAGACATT 120
CAATGAATAT TTGTTGATTT AAA 143

SEQ ID NO:7497

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08739

SEQUENCE DESCRIPTION:

GATCAACAAA ATGTGGTATA TTCATACAGT GGAATATTAT TCAGCCTCTA AAAGGAAGAT 60
ACGCTGACAT GTGCTGCAAC ATGGATGANT CTTGAGGACA TGATGCTAAG TGAAGTAAGC 120
CAGTCACTGG AAGACAAATA CTCTATGCTT CCNTTATGT GAAGTATCTA GAGCAGTCAA 180
ATGCATAGAA ACAAGTAGAA TGGTAGTTGC CAAGGACTGG GGGAGGAGGA AATGAGGAGT 240
TGTTTAATGG GTATAGTGTT TCATTTTGC NAGATAAAAA GTCCTGTGGN TTGGTTGCAC 300
AGTTAAGTTA TGTGANTGCT GTATGCCCAA CTCANCTGTT NN 342

SEQ ID NO:7498

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08740

SEQUENCE DESCRIPTION:

GATCCAGTCG GCCTGGAGAT TCTACGCCAC CAACCTCTCG CGCACAGACC TGCACTCCAC 60
GTGGCAGTAC TACGAGCGAA CGGTCACCGT GCCCATGTAC AGGTACCGCC GCCGGGCACC 120
TGCCACCAAG CAACTGTTTC ATTTTTTATT TTCCATTGT TCTTAAACCC CACTTTTTGT 180
TGTTTATTAT TTTGATTGAT TTTNNNTTCT TAAAATGTA TTTTCACAA AGGAAA 236

SEQ ID NO:7499

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08741

SEQUENCE DESCRIPTION:

GATCCTAACC CTTTAGTATG CTGGAATTCT ACTCTTCACT TACTGCATTG ACTGTTGTTG 60
ATTAGTTATN ATTGCAAAGC ACTGTCACCG GCCTCAGGGA GTTTATGTGT AATAGAATTA 120
AAAATAATAG CTGTGTATAA CACTTAGCTC AAGCCACAAA 160

SEQ ID NO:7500

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08742

SEQUENCE DESCRIPTION:

GATCTTATTG TGGAGTTAAA CAAAGCACCC TTAAAGTAGC AAGCGAGCAA AATAAAAGCA 60
AGGAAAATCA GTTGAACAT AACTTATGTA TTTTITAGGA TTAAGAGTAA TTAACTGAG 120
TCAATTCAAT ATGTTTTTAA AGGTGTGATT CTAAATNCT TTATGATTGT TTAGATTCT 180
ATATCTTGGT AACATGAATA CAACTTAAA 210

SEQ ID NO:7501

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08743

SEQUENCE DESCRIPTION:

GATCAGCATT TGTATTTNAG TCCATTAATG GGAAAAATAG CTGATATTGT NCATAGGAAC 60
TTGGAAACCA CACAGGACTT AAGTCCCTTG TCTGTNTTGA TGGTCAACAT ATCTCCTTTA 120
ATATCACGAC ATTTTCAACA ACANCTGGTG AACAAAACAG ANCTNCTTTT TGACACCATA 180
GATTCTCCTG AGGTCAACGT TGCAAAANGC ATAGCAAAGT TNCTCCGAAA TGTTAGATAT 240
CGTTATCAAC CACTATTAGA CAGATGTAAT ACCGTATTTT TTCAGTAATG TGGNCCACCT 300
TGATTTTGGN TTCCATCAGT ANAGNGACTT AGTGTATACA NNNACNAAAN N 351

SEQ ID NO:7502

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08744

SEQUENCE DESCRIPTION:

```
GATCGCACCA CTNCACTCCA GCCTAGGTGA CAGAGGGGAT GACAGAGGGT GCTCTGCGNN 60
CAGGGAAGGC GGGGTGGTTG GGGGGTAGAG AATGTTGCNC TNATAACCAC AGCTGTGGTT 120
ATTTTNTGGC AGGTACAGGT NAGGTTCCCT CTCCTTTCCA CCAGATGGCA CTGGAGAAAA 180
GGGATTTNAN TTAAN 195
```

SEQ ID NO:7503

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08745

SEQUENCE DESCRIPTION:

```
GATCAGAGCA GAAATAAGTG AAATAGAGAC TAAAAAATAG AAAACATCAA TGAAACAAAG 60
AATTATTTTT TAAAAAGATA AACTAAATTG ACAAACCTTT AGCTAGACAA AGAAAAAAGA 120
GATAAGACAC AGATAANTAA NTTCAGAGAT TAANAAGAAG CCATTATACC TGATACCACA 180
GAANTACAGA GANTCATAAG AGACANTTAT GTTGTGCACA TGTACCCTAG ANCTTAAAGT 240
ATAATANNCN NTANTTN 257
```

SEQ ID NO:7504

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08746

SEQUENCE DESCRIPTION:

```
GATCTTACAG AGAAAGACTA TGAAATACTT TTCAAATCTA TTAATGGAAT CCTTTNCCCT 60
GGAGGAAGTG TTGACCTCAN ACGCTCAGAT TATGCTAAAG TGGCCAAAAT ATTNATAAC 120
TTGTCCATAC AGAGTTTTGA TGATGGAGAC TATTTNCCCTG TGTGGGGCAC ATGCCTTGGA 180
TTTGAAGAGC TTTCACTGCT GATTAGTGGA GAGTGCTTAT NAATTGCCAC AGATACTGTT 240
GACGTGGCAA TGCCGCTGAN CTTCACTGGA GGTcanttgc ACAGCAGAAT GTNCCAGANT 300
TTCCTACTG AGTTGTTGCT GTCATTAN 328
```

SEQ ID NO:7505

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08747

SEQUENCE DESCRIPTION:

```
GATCAATTTG AAGTCCCTGT TTGGGAATAA GGCACCTATC AGCATGAAGA ATTTTTTCTC 60
ATTCTGTGCC ATTTTAAAAA TAGAATACAT TTGTATATTA AA 102
```

SEQ ID NO:7506

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08748

SEQUENCE DESCRIPTION:

GATCACCTTC GNACGACTAC ATCGCCTGCT GCGTCAAACCT GAGGGCTCTT ACAGNCAGTT 60
TTCGAAGNCG GGGTACTGCT CAGCAAGGTG TTGTGAATTT CCCATATGAT GATTTCATTC 120
AATGTGTCAT GAGTGTTTAA ATCAAGAGGA AGCTGCATGA ATGTAATCAA CATTCCAACCT 180
GGAGCTCTCC TTTGCTTGTC CTCTTTGCCT TCGGTAATAT GTATAAACTT ACATCACGAC 240
TTTCTCTTAA CAGCTGTTGT AAAGTTTATT ACTTTATGTA CAACTGAAGT TTTGTTTTAG 300
TTTTGATAAT AAAATTCTTT GGAACCTTAA AAAAAAAAAA NGN 343

SEQ ID NO:7507

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08749

SEQUENCE DESCRIPTION:

GATCCAAGTG CTTNTTTGGT ACCAAGAGAC CCGGNTCTNT GCCAGCATAA ACCACTCACA 60
CCCCAGGGGG ATGAGCTCTC TNAGCCCAGG ATTCTGGCAA GGGAGGTGAA GAAAGTGGAT 120
GCGCAGAGTT CGGCTGGGGA AGAGGACGTG CTCCTGAGCA AAAGCCCATC CTCACTCAGC 180
GCTAACATCA TCAGCAGCCC GAAAGGTTCT CCTTCTTCAT CAAGAAAAAG TGGANCCNGC 240
TGTCCTTCCA GCAAAAACAG CAGCCCTNAA TAGCAGNCCN CGGTCTTTGG GGAGGNGCAA 300
AGGNAGGCTC CGGTTGCCCC AGATTGGCAG CANNATTATN AN 342

SEQ ID NO:7508

LENGTH:369

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08750

SEQUENCE DESCRIPTION:

GATCAAGCAA TTAATCTTCT GTAGAACCAA AATTNACTGT AATAACTTGG AGCAGTACTT 60
TATACAACAA GGAGGAGGAC CTGATAAAAA AGGACACCAG TNCTCATGTG TTTGTNTTCA 120
TGGTGACAGA AAGCCTCATG AGAGAAAGCA AAAGTTGGAA AGATTTAAGA NAGGNGATGT 180
AAGATTCTNG ATTTGCACAG ATGTAGCTGC TAGAGGNATT GATATCCACG GTGTTCTTA 240
TGTNATANNT GTCACCTCGN CCGATGAAAA GCAAACTNC GTACATCGAA TTGGCAGAGT 300
AGGGTGGAGC TGANGGATGG GTCTGGCAAT TNCCCTNGTG GCACCGAAAN NGGACAGGGT 360
TTNGTACCN 369

SEQ ID NO:7509

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08751

SEQUENCE DESCRIPTION:

GATCTGGCCA GAGGGGTGTT GGAGCCCAGC CCACCCACAT ACCAGTCAAG CTCTTAGGGG 60
 AGCAGAAGAA AAGCAGGAAG AATTTAAATG TTAAATTTT TTTNAAATT GACTTTNCTA 120
 GTTATTAAAA GTTGCTTGTT TCAGCAGTGN TATTGTATAA NGACCATCTT GTAAGNTACT 180
 CCTGACATCT TGCTTTAGCA CATGTACAGT ACAGTTNCTN TGATAATGTG TTTGCCCTAA 240
 CTNCCCTGGC TTCNCCTTCA GCCCATCCNC TCTCCTCTAG NGCAGTTGGG TTGGAGGCTC 300
 NTTGAGGCAA GCNGCANCAT TGGNGGGGGT GCAGN 335

SEQ ID NO:7510

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08752

SEQUENCE DESCRIPTION:

GATCCGACAC AGAGAACAGG AGGAACTNAG GCGACAGCAA GAGGGCTTTA AGCCAAACTA 60
 CATGGAATAT AGAGAACAGG AAATNAGAAT GGGTGATATG GGTCCCCGTG GAGCAATAAA 120
 CATGGGAGAT GCGTTTAGCC CAGNCCCTGC TGGTAACCAA GGTCCCTCCTC CAATGATGGG 180
 TATGANTATG AACANCAGNG CAACTNTACC TGGTCCACCA ATGGGTACTG GTNCTGCCAT 240
 GGGACCAGNA AGGNGCCGCA ANTNTNGGGN 270

SEQ ID NO:7511

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08753

SEQUENCE DESCRIPTION:

GATCCCAGGA GAATCAGAAA CTCCAACATT TTGGAATCTT CAAGGGCACA TACTGAGAAA 60
 AAAAATAAAA TTGTTTATGA GCAAA 85

SEQ ID NO:7512

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08754

SEQUENCE DESCRIPTION:

GATCAAACTA TACGCTGTCT ACAAGAGACA CTTTAGATTT AAAGACACAA ATAGGTTGAA 60
 AGTAAA 66

SEQ ID NO:7513

LENGTH:390

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08755

SEQUENCE DESCRIPTION:

GATCTTTTGT ACTGAGGTTT TTAACACTTT ACTTGGGTTT ACCAAGCCTC AACTGGACAG 60

ACCATAAACA GTCCACAGGC ACCGTTCTTG CCAGGCCCCA ACCCACAGGG AGTCTNTCCG 120
 CAGAGCCTTC TTGGTGTTGC CCTAACTTGC CAGTGGCCTT TGCTCAGAGC CTCCTCCTGT 180
 GACATGTGAA CAATGAAGAG GCCTGCGCCT CCTGCCTTGC CGCCTGCAAA GCAAAGAAAC 240
 TGCCTTTNAT TTTTAACTT TAAAAAGTAG CCAGATTAGT ANCANGACTG GCTGGCTTGA 300
 TGAGCAAAGC CTTTGCTCTC ACGGNAGGAG GGTAGGGTTT NGGNTGTACA ATGGTAACTT 360
 GCNNTGGGNA CCTTAAAAAG GGAGGTGNAN 390

SEQ ID NO:7514

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08756

SEQUENCE DESCRIPTION:

GATCACCTGA GGTGAGAGT TTGAGACCAA CCTGACCAAC ATGGAGAAAC CCCGTCCTA 60
 CTAATAATAC AAAATTAGCT GGGCGTGGTG GCACATGCCT GTAATCCCAC CTACTTGTGA 120
 GGCTGAGGCA GGAGAATCAC TCGAACTCAG GAGGCGGAGG TTGNAGTGAG CCACTGCACT 180
 GCCTGGGCAA CAGAGCGAGA CTCCATTTC A 212

SEQ ID NO:7515

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08757

SEQUENCE DESCRIPTION:

GATCCACCCG NCTTGNGCCC CCCAAAGTGC TGGGATTACA GGTGTGAGCC ACTGTGCCCC 60
 GCCGAGTTAA ATATATTTCT AACATAGTAA AAAAAAAG GTANGTTNCA TTAATAAAT 120
 CCNGGAAGTN CAAATN 136

SEQ ID NO:7516

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08758

SEQUENCE DESCRIPTION:

GATCATGAAG ATGGACAGAA CAGACACTGT GGCAATAAGA TACCAAATTG TAAACAGGAC 60
 CTAAGGCCAT GCCAAGCAAG GGTAAAGTCA TGTAAGAGCC GCCTTCATGC CCCGCCTCCC 120
 CTGCCCCCAA CTTATGAATA AACTATGTTC TAACTGCAAA 160

SEQ ID NO:7517

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08759

SEQUENCE DESCRIPTION:

GATCTGGAAC TTGAAGATGC CATTATACA GCCATCTTAA CCCTAAAGGA AAGCTTTGAA 60

GGGCAAATGA CAGAGGATAA CATAGAAGTT GGAATCTGCA ATGAAGCTGG ATTTAGGAGG 120
 CTTACTCCAA CTGAAGTTAA GGATTACTTG GCTGCCATAG CATAACAATG AAGTGACTGA 180
 AAAATCCAGA ATTTCAGATA ATCTATCTAC TTAANCATGT TTAAAGTATG TTTTGTTTTG 240
 CAGACTTTTT GCATACTTAT TTCTACATGG TTAAATCGA CTGTTTTTTA AAATGNCAC 300
 TATANNTCCN AATAANCTGT TAANCCNGGN ANANGGNNTT GTNTTNGTGN GGNTN 355

SEQ ID NO:7518

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08760

SEQUENCE DESCRIPTION:

GATCTTCATT TTCCTGTTCT GTATTCTGCT ATGAAGTTCT CTGTTTTTCA AATAAAATTT 60
 ATGTGTAAAA TAACAAA 77

SEQ ID NO:7519

LENGTH:20

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08761

SEQUENCE DESCRIPTION:

GATCATCTTG GAACTGCAAA 20

SEQ ID NO:7520

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08762

SEQUENCE DESCRIPTION:

GATCGGAGGC TGCAGTGTGA CAGTGCCAGC CAATGTGCAG AGGTGGATGA GGTCTTGTTA 60
 AAACCTGGCT CCTTTTAACA CGGCCCTCAA GTCCTTAAG TNAATTGCCG TAACTAATTT 120
 TAAAGGGTTT AGATTTTAAG AATGGTGCTC TTTTCATGCCT ATNATCAGTA AGGGGACTTG 180
 TATTAGAGTC AGAGTCTTTT TATTTAGGCC AGTTGTCAAG TGTCAATAAA AGCATCATGT 240
 AATTAAA 247

SEQ ID NO:7521

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08763

SEQUENCE DESCRIPTION:

GATCTTAATA TTGACTAGTT TCACATCCAG GTTTCTAAGA AATGATAAGA TACTTCACTT 60
 TTCCAGAGTG AAATGTAGGA GGGAGCACAT TCTAAGTACA GCTAAAAATT TAGCTCACTG 120
 TAACACAGTT TCACTCTCTG AATAAATAAA GCAAAAAACA CAAA 164

SEQ ID NO:7522

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08764

SEQUENCE DESCRIPTION:

GATCTGCCTG CGAAGCTCCC CACAACACTG TCCCTGGAGA CCACCCATGT GGCAGACACT 60
CAAAATCTGT TGTATTTGCT AAATAAATTA ATATGGACAA GTTACCCAAA 110

SEQ ID NO:7523

LENGTH:181

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08765

SEQUENCE DESCRIPTION:

GATCAAATTG TTCATGCCTT GGGATTTTTT CTTCTATAAT TTGGATATCT TTNTCCATTG 60
CTCATTCTT TATTGAAGTT GCTTTCTTAA AAATTGATTT AACTTTGTCC TTGGTATCTT 120
TAGTTCAGTC CAGAAATNAT TAATTGTGAT GTGATTAAAT TCATTTTTTG GTCTGGTGAA 180
A 181

SEQ ID NO:7524

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08766

SEQUENCE DESCRIPTION:

GATCTGAATG GTTTTAATAA GGGGCTTTCC CCCTNCTTCG CTCTGCACTT CTCCTTGCTG 60
CCATGCGANG AAGGATGTGT TTGCTTCCCC TTCTGCCATG ATTGTAAGTT TCCTGAGGCC 120
TCCCCAGCCA TGTTAAACTT TGAGTTAATT AAACCTCTTT CCTTTATAAA TTAAA 175

SEQ ID NO:7525

LENGTH:362

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08768

SEQUENCE DESCRIPTION:

GATCTGAAAA ATNCTTTTTG TCCTCATTGT TGCAGTTTCA ATTGTAATCC ATTGCATCTN 60
ATTTTCTTGG GTGTTGGCAC TGTAATATAT TAAAAAATAA TTCAGTGCTC AGTATTGTAA 120
CAACTGTCCC TACTGAATAT TCCTTTTCAT AAATACTTGC TACCACAGGG AAATTAAGTT 180
TTCATATAGA ATAAC TAGTT TCAGTAGTAA CCATTGAAGA NTAANCNTG TGGTTCANGG 240
CAGATATTTT TCTGGAAAGT TTTCTCTATT GTANAATTTG TNGTATATGG CTATGCTGAC 300
TATCNTGGAT NCTGTCATGG GACATGCATT ACCACANNTN CNNGCCCCCTT TCTGTGGTNN 360
NN 362

SEQ ID NO:7526

02127

LENGTH:306
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08769
 SEQUENCE DESCRIPTION:
 GATCCCATGG ACATTTGGGG AAAGGGCTCC TTGGGCTGCT GGTGAACTTC TGTGGCCACC 60
 ACCTCCTGCT CCTGACCTCC CTGGGAGGGT GCTATCAGTT CTGTCCTGGC CCTTTCAGTT 120
 TTATAAGTTG GTTCCAGCC CCCAGTGTCC TGACTTCTGT NTGCCACATG AGGAGGGAGG 180
 CCCTGCCTGT GTGGGAGGGT GGTTACTGTG GGTGGAATAG TGGAGGCCTT CAACTGATTA 240
 GACAAGGCCC GNCCACATCT TGGAGGGCAT CTGCCTTACT GATTAAAATG TCAATGTGAA 300
 TCTAAA 306

SEQ ID NO:7527
 LENGTH:76
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08770
 SEQUENCE DESCRIPTION:
 GATCTTTTAG TTATCAAAC TTTAAATACA TTTTAACTTT CAAATTTTAT GAATAAAGGA 60
 GATGAATCCT GTTAAA 76

SEQ ID NO:7528
 LENGTH:74
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08771
 SEQUENCE DESCRIPTION:
 GATCTGAAGT CTGATTGTGT GTACGTTTCG GCGTGCGTTA GTCCCTGCCA CGATTAAAGA 60
 CTTAGACCGN CAAA 74

SEQ ID NO:7529
 LENGTH:102
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08772
 SEQUENCE DESCRIPTION:
 GATCGCGCCA CTGCACTCCA GTCTGGTGAT AGAGCAAGAC TCCATCTCAA AAATAAAAAA 60
 TAAATGTTG GNTGTGGGA GCCAGGCCTC TCACAACTGA AA 102

SEQ ID NO:7530
 LENGTH:312
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08773
 SEQUENCE DESCRIPTION:

GATCGAATCC AGGCCCTGGG GCTTCANTTG CCAGACCCAC CATTAGAGAG TGAAGATGAA 60
 GATGAGGAGG GAGCTACAGC GTTGAACAAC CACAGCTCTA TTCCCATGGA CCCAGAACAT 120
 GTAGAGCTGG TGA AAAAGGAC AATGGCTGGN GTAAGCCTGC CTGCGCCAGG GGTTCTGCCC 180
 TGGGCTCGGG AGATATCGGA TGCCCAGTGG GAAGATGTGG TACAGAAAGC CCTCCAAGCC 240
 CGGCAGGCAT CCCCTGCCTG GGAGTGACCA CAGTGAGAGC TGCCTTATAT TCCTACATTC 300
 CAGGCCAGAA CN 312

SEQ ID NO:7531
 LENGTH:186
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08774

SEQUENCE DESCRIPTION:
 GATCTGGACT GAGGACCCTG CTA CTCCCCA AGCCAGAGCC CATCAGCCAG GCCTGCTGTG 60
 AGCCACCTGC CTGTGGAGTG CTGAGCTCAA CCA AAGGCTG GCAAGCTCTG GGCCTCATTT 120
 AAGGGATTCT GATGAGCCGA TGGGCCCTGG AGGCAGCCCA TAAAGCATC TGGCTCGTTT 180
 TTGAAA 186

SEQ ID NO:7532
 LENGTH:390
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08775

SEQUENCE DESCRIPTION:
 GATCACATTG CCATTCCTCC CCTCCAGAGG TAACAATTAT CCACAATTTG ATGTTTATCA 60
 TTCTGTGTT GTTGTA CTTT CACTGTGTAT AACCTAANNC NTCTACTNTT TAGTACTGTT 120
 TTATATATTT TNAAGCCTCA TACTTGCTCA TTCTACAGCT TTTTCTACTC ATTATTGTAT 180
 AATTATATCT GANGCNC TCG TTCATTAATT TTAGTCCNGT GTAGCAGAAT TCAATTACGG 240
 GAACTACCAT AATTTATCTG TNCTCCAGTT GAAGGCATGA NGTTGTTGCC AGTTTCTGTA 300
 TTATAACCAC TG TAGTG GGA CCATTCTTCT GCNTTGGGCT CACTGCGGGT TACCNAAGNC 360
 GGTNCCNCAG GATAANCCCC ATTTGGGNTN 390

SEQ ID NO:7533
 LENGTH:378
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08777

SEQUENCE DESCRIPTION:
 GATCTAGCAT GTGGATTTTA AAAGATTTGC CCTCATTAAC AAGAATAACA TTAAAGGAG 60
 ATTGTTTCAA AATATTTT N CAAATTGAGA TAAGGACAGA AAGATTGAGA AACATTGTAT 120
 ATTTNNCAA ANCAAGATGT TTGTAGCTGT TTCAGAGAGA GTACGGTATA TTTTGGTAA 180
 TTTTNTCCAC TAGCAAATCT NGATTTNGTT TGATAGTGTG TGGAATTTNC TTTTGAGGGA 240
 TAAGACCATG GGANANTTGT GGTAAAGACT GTTGTNCCC TTCATGANTN CTCTGAAGT 300
 TGCCNTCAGT TTNCTAATC TCCTGTGAAA TGCCTAGGTT TTGCGCCTGT CCCACTTTTT 360
 NTTTGTGGGN CTTATNTN 378

SEQ ID NO:7534

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08778

SEQUENCE DESCRIPTION:

GATCATTTGA GTGAAAAAAA GGTACCTGTN CAAGCAAGCT CCTGGACACC ACAAGAAGGA 60
GGAATTATTT TAAAAGCTGT ACTCTTAAAT TGTNAGTATC TTAAAATCA GTTGTGAACA 120
ATGAAGGATT TGAAGAGCA TTGACTTTGC CACTTAAAG TATTTCTAAA ATAAA 175

SEQ ID NO:7535

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08779

SEQUENCE DESCRIPTION:

GATCAAGGTG AATTTTTTGT ATCACTGCCT GTGGAAATCT ATCCTCATCA GTNATTGCAT 60
TTTTCCCTGC CTATACCTGT GCTCCTTTTT NTNACTGTGT TTTCAGTCAC TTCCTTTCTG 120
TNAAGGTTG CTTAGCTTTT NTTTTNAANA TTTGTTGTN 159

SEQ ID NO:7536

LENGTH:304

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08780

SEQUENCE DESCRIPTION:

GATCCAAACC CACAGTNTTG TCCTGGAGGC AGCAGGGGTG AAGGTGGAGG GTCCAGGGCC 60
ATGAGGAGCC CCCTTGCCAT CAGAGCCTGG CCTAACCACC CTCTTCTCTA CTTACACACA 120
CATGCATTTT ATAATAGCTC TGACCCAACC TGGCCACTCT GCAGAGACTG GGACAGACAG 180
GTGCAGGCAA TGGGCCCTCC CACACCCAGT CACCTACAAG GAATTTTCAA ATCCACTTTT 240
AAAACAGAAA CCGGTAAATG CGCCGTATTG TATATTTTAT TTAAATAAAA AAAATTCCAG 300
CAAA 304

SEQ ID NO:7537

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08781

SEQUENCE DESCRIPTION:

GATCCACCCT TCCTGGGCCT CCCAAAGTGC CGGGTATTAC AGTCATAAGC CACCACACCC 60
GGCCTAACAT GCATTTTTTT AATTCAATAA ATATTTATTG AGCACCTAAA 110

SEQ ID NO:7538

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08782

SEQUENCE DESCRIPTION:

```
GATCCCTCC CCTCTGCTT TTCTGTATTT TTTAAAAATT ATTTTGTTTT TAATTCACAA 60
ATATTGTATA TGTTATATGG GGTAGAATGT GATGTTGATA TATGTTTAAA ATGTGGAATG 120
ATTAAATCAG GCTAATTTAC TTTTTTNNCC NAAAAGGAAA 160
```

SEQ ID NO:7539

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08783

SEQUENCE DESCRIPTION:

```
GATCCACCCA GTTGCTCAAG TAAAAAACCT GAGAGACACC TTACGCCATC TGGGAACCTG 60
TTAGAAATTC TTAAACCTCA TTCTATACCT GCTAAATCAG AAAATGTAGG GATTAAGTCT 120
GATTATTTGT GTTTTCGCAA GTCATCCNGG TGATTCTGAT GCATGGAAAG TTTGAGAACC 180
ACTGTTTTAG GTTATTAATA GTTCTTGTCT CCCTATAAA 219
```

SEQ ID NO:7540

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08785

SEQUENCE DESCRIPTION:

```
GATCAGAGAA GACTTTAAAA CTCTTGACTT AATTGAGTAA ACTCTTCATG CCATATACAT 60
CATTTTCATT ATGTTAAAGG TAAAATATGC TTTGTNAACT CAGATGTCTG TAGCCAGGAA 120
GCCAGGGTGT GTAAATCCAA AATCTATGCA GGAAATGCGG AGAATAGAAA ATATGTCACT 180
TGAAATCCTA AGTAGTTTTG ANTTTCTTTG ACTTGAATCT TACTCATCAG TAAGAGAACT 240
CTTGGTGTCT GTCAGGTTTT ATGTGGTCTG TAAAGTNAGG GGTTCTGTTT TNGTTTCCTT 300
ATTTTGAGGT AAGAGTACTG CTNGGTGGTC GGGGGGGTTA TATNNTNCCC TTTTN 355
```

SEQ ID NO:7541

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08786

SEQUENCE DESCRIPTION:

```
GATCAGGTTT CCCCTCAGAA CCTGTGTTGC CTGCCTGCTG TATCTTCCAT GTCTTTCTTA 60
TTCAACTTCT AGAAGTAGAG AAGGTTGGGA CTTGAGTGTA GAAGAAACAT CAGAATAATT 120
TCAAAAAACA GGAAGTTGGA ACTATAATTT TTAAATTATT GTATTGTTTT TACGGATTTT 180
ACATGTATAG TTAAATATTA ANNTTCATCT CTTGCAGTTC ANTAAAAGCT ATAGTATAGA 240
TTTTATTTTT AAGAAGTTTA TATAATNCTT TTGTGAGCCA ATATGTAAAA CTNGAATATT 300
TATTTANCCT ANTN 314
```

SEQ ID NO:7542

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08787

SEQUENCE DESCRIPTION:

GATCACAGAG AAAGTGATTA CAGACATTGC TGGGGTAATA CCAGCTGAGA AAATTGATGG 60
AGTATTTNCT GCCTGTNAGA GTGGCTCTTT TGACAAACTA GANGCTGTGG TCAAGGATTT 120
AATAGATGAG GGTTCATGCAG CAACTCAGCT CGTCAATCAN CTCCATGATG TG GTTGTAGA 180
AAATANCTTA TCTGATAANC AGAAGTCTNT TATCNCAGAA AACCTTGCCG AGGTTGCCAA 240
ANGCCTGGCA GATGGTNCTG TTGTCCATTT GCANCTCATC NGCCTTTTNG CCCTGNGN 298

SEQ ID NO:7543

LENGTH:32

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08788

SEQUENCE DESCRIPTION:

GATCAAAATT AAAGACAGTT AAAAAGGTGA AA 32

SEQ ID NO:7544

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08789

SEQUENCE DESCRIPTION:

GATCATCATT TATTGCATCT CATAACTAAA TTNNTAAAG TTTGGATTGG GACTTTTNAG 60
GTCCTTTTGG GAGGGCAAAG GAAGTGCCAG CTTCTNTGGG GAACTTGTTT TTAAATCCAA 120
AGACTTGAAC CACATTCCCT GCACATGANC ATGTTTGCTT TTATCCCTTC TCTCATTGTN 180
TCCTACCCAT CTTAGTACCA TTGTGGTTAT AANCATCTGC ATTTNTNAGA AGCATTTNAC 240
CCATTTNNN 249

SEQ ID NO:7545

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08790

SEQUENCE DESCRIPTION:

GATCATATGG AATGTACTAT TTTGTAATGT CTTTTTTCAT TTTACAATGT ATTATCAACC 60
TTTTCCCTCT CAAAAATACA TTGTGAATGA CTGCATAGTA TTCACCTTAT GANTATTTAA 120
TTCATTTTAC AGTCTTCTAT TGTNGGACCA CTNACATTGT ACCAAATGTT TTCCTTTGGT 180
TTATTCTTTA ATGTATTAGT ATTTTACTGC TGGTCACTCA TGGAATCCTG CAGCTTTANT 240
NAAAAGCAAG GATGAAA 257

SEQ ID NO:7546

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08791

SEQUENCE DESCRIPTION:

GATCGTGCCA CTGCACTCCA GCCTGGGCGT TGCAGTGAGA CTCCGTCTCA ACAACAACAA 60
AAAGGTGGAT ACATGTCAAA AGGGCACAGG AGCCACTTGA AGGATTATAC TTGCTAAATC 120
TGTGTCAATT ATCAAAATAA ACTGGTAGCA ACGTTAAA 158

SEQ ID NO:7547

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08792

SEQUENCE DESCRIPTION:

GATCAAAGGG ATGAGCAACA GGGACTTCTG CCACAGTGAC AATGGAATTG TGTGTGCCT 60
TACTTCAGAG GTGGTCTCTN CTTTCTTGTA ATAAAAGCAA TATTTATGCG GAAAGCAAGC 120
AGCTCAAA 128

SEQ ID NO:7548

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08793

SEQUENCE DESCRIPTION:

GATCACATCA AGCTAAAAAA CTTCTACACA GCGAAGGAAA CAAAGTGAAC AGAATAACAT 60
GGGAATGTTT TCTGTAATTT AGTAGTAAC TGGCAATAGTT TACAAACACA TTTGTGTAT 120
ACTGCTGTCA TTGCACTGNT TACCTTCTGT TGTAAGTACT TTGTTCTATT AGTCCACTCA 180
ATTAAATAT TTGGTTTTGT TAAA 205

SEQ ID NO:7549

LENGTH:372

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08794

SEQUENCE DESCRIPTION:

GATCTTATTT TTAATGTAGT GAGGATATTA TTAAACTTT TATTTTAACT GGAAATGTCC 60
TGAAACACAT ATTTAAAATA TTGGGATACA GTGAAAGAAA AATTCAAATT TTAATAACAT 120
AAAGATTTCC TAACTTTATG TTATTGANCA CTTACTCACT AGAAGTGAGT TCTTTAGAAA 180
ANTACAGTGA AGGACTCAGT TCAGTCTTGT TTTTATCAGA GTGATAATCA TCCTGTTTCA 240
CATCCCAATA CTATTTTGAN ATTCTAAACA ATGGAACCCA AANTNCCAAT AANTATAAGG 300
TTATGCCTTC AATATATTCC TATACANTTC TGTAACCATG GTTTANNATA CACAAGCTTA 360
NNATACCATG GN 372

SEQ ID NO:7550

02133

LENGTH:97
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08795
 SEQUENCE DESCRIPTION:
 GATCCGGTNG TCTAAATGCA TTCATATTTT TATGATTGTT TTGTAAATAT CTTTGTATAT 60
 TTTTCTGCAA TAAATAAATA TAAAAAATTT AGAGAAA 97

SEQ ID NO:7551
 LENGTH:244
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08796
 SEQUENCE DESCRIPTION:
 GATCTGGGTT TGGCATTAGA AGTATTTTCAT AATTTTGGTT TTNATTTAG GTTTCCTCAA 60
 CATCTGTAAA GTGATTGATT AAATTAGAGG AGGCGTGTAG AATAAATCCC AATCCCATTG 120
 CAACTGGCAG AGCATTATAA NTNTTTATAA ATNCAGTTAC AACAAAGGAG AGGNTCTACA 180
 TTCTTCAAAA AANAAANTTG GCTTACCTGT TTCANCTTN GGTGGCATT NNCTGCCATT 240
 NGTN 244

SEQ ID NO:7552
 LENGTH:364
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08797
 SEQUENCE DESCRIPTION:
 GATCTGGGAA TTACCCATCA TCATTAAGCA ATGAAACAGA CCGGCTGGTG CACTGGTGCC 60
 ACGGCGCCCC GGGGGTCATC CACATGCTCA TGCAGGCGTA CAAGGTCTTT AAGGAGGAGA 120
 AGTACTTGAA AGAGGCCATG GAGTGTAGCG ATGTGATTG GCAGCGAGGT TTGCTGCGGA 180
 AGGGCTACGG GATATGCCAT GGGACTGCTG GCAACGGCTA TTCCTTCCTG TCCCTTTACC 240
 GTCTCACGCA GGATAAGAAG TACCTCTACC GAGCTTGCAA GTTGCAGAG TGGTGTCTAG 300
 ATTACGGAGC ACACGGGTGC CGCATTCTG ACAGACCCTA TCGCTCTTT GAAGGCATGG 360
 CNAN 364

SEQ ID NO:7553
 LENGTH:129
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08798
 SEQUENCE DESCRIPTION:
 GATCTGTGTG TCTCTGTTTT GAGTTTTTCC TGTTTATTTT GAAAAGTACT GTTGGTCAAG 60
 ATAATTGGTC AATAATCCAT GTTGGTTTAA AAAAAAGCA TTTTAACATT AAAAATATTA 120
 CAGTATAAA 129

SEQ ID NO:7554

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08799

SEQUENCE DESCRIPTION:

GATCACATTT TNATTTTTTN TTCTCCACAT CAGGATAGTT TACTGAAGCA CAATCTCTTA 60
TACTAGTGGG ACAAAGGGA GAAAAGGAA GCAAGATAAA TGGGTATGTA GGATGAAGGG 120
TTATTTAAAA TGGAATAAA GATAGAAGGA GGAAGTATGA AAGANATGGA ATNNTTTANN 180
TNTGAGGAAA GATATCTNTG GTAGACATGT CCTTCCATGA CTAATTTCTA ATTGTNACTC 240
ANCACACATT GAGGTATGGN CCCTCCTCAG TGACTTTNAC TAGCTCAGAN ACGTACTCCC 300
CCACCANCCC CACCTN 316

SEQ ID NO:7555

LENGTH:365

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08800

SEQUENCE DESCRIPTION:

GATCAGTGGA ATTCTTGGTT TGATGATAAC CTTATTAATT GAAATNTTTT ACTGATGTGG 60
CTTTAAAAGA GGTATATNTT GTATATGTTT AGAACTCTCT GATTTTNATG AATTATATGG 120
GAATGAGAAA CAGAAGAAGT GGTATTTNCT GGCGAGTTAA ATAGGCAAGG TACCCAGTGA 180
TAACACCAAC CAAACCACTC CTATCTGCAT GATTCTGAAC ATCTGGATGC CTGTGGTTTTT 240
ACTGTGTATA TNTNATTTTT AATATATTAC CTTTGTGGAT NCATTTAAGG TCTACTCAA 300
NGTANCACTG TCAAAACCAC TAATATGTAT GTNAAANTTG TNCTGTNTAC TACATTACNG 360
TNCAN 365

SEQ ID NO:7556

LENGTH:349

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08801

SEQUENCE DESCRIPTION:

GATCTTGAGT AACTGAACTT ATTTCCCTTA AGGTATAAAA ATTTAAATAA CCTGTATATA 60
TTTGNTAACA NCTTTATNAG GGAGGTAAGT NACTTACAAT ACATTGCACA TATTTAANGT 120
ATAGANTTCG ACGAGTTTTG ATGTATGTTT GCACCTGTGA AACCATCACA ACAAACAGTG 180
AGCATATCTN TCACCCCTAA NNGTTTCCTC CTGTCCCTTG GTAATCCCTC TTTTACCTGT 240
CCCACTTCTG TTCCTCAAGA NCCACTTACC TGCTTTNNTN ACTGTTAATG TACGTGAGTT 300
TACATTTTTG AGAGTTTTAT CCAAAGGGNA TCATGANGTA TGTNCTCTN 349

SEQ ID NO:7557

LENGTH:369

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08802

SEQUENCE DESCRIPTION:

GATCTNATCA ATCTAGCGGG AGAGACAGGA TAACCTGTCC GAAAGTATAG CGCCACTATN 60
 ACTCCGCCGG AAAAATTACT TTA AAAATCG CCAAAAATTA CTTGGAGCAA AGGGCAGTCG 120
 GCGGANTTCG CCAAGGCTGG CGCAGTCGGT TTTNACCTGT AGCAGAGAAC CNGGNCTGGA 180
 GAACAGCCTC ACTTCTTTNA TTGANTACTT ACATAATGCA TTGGAACATG ACATGAGATT 240
 AAGGTTTAAT AATGATAGAN TGAAGACCAC AATAAAAGAG ACCTCTACTT AGCTCAGCAA 300
 TTCTTACCTT TCTTACCTAT TTGATGGAGG NTGTCTTTTG ANAGGTGTNC TGCAGGGNCC 360
 AAANTGTTN 369

SEQ ID NO:7558

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08803

SEQUENCE DESCRIPTION:

GATCTTGTAT GCCAACTTT AATCTGCTTT TATGTTTTCA GGCTGAAGGT GTGAAAATCC 60
 TAAGAGGATT TCATATTGAA TATGTGTACA CAATCTTAAC TATCGTGGTG GAAAACATAC 120
 TACTATAATT NATTATTATA TCTNCCAGAT AATGTTATTC ATTTAGAACA AATAAGGTAT 180
 ATTTNTNAGA ATCANCTTTG TAAGCACTAT AANNNCTTTN ATAAGTTATA AGGTCTATGA 240
 TGTGTTTACT TTAANNCTTG CTGTTAANAG CAACACGTAT TANNTATGTN 290

SEQ ID NO:7559

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08804

SEQUENCE DESCRIPTION:

GATCTGGATA AATTTTCATT TCTACTTAAT TAAAACTTCC TATGTAAAAT CAAA 55

SEQ ID NO:7560

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08805

SEQUENCE DESCRIPTION:

GATCCCGAAT CCCAGAAATA ATTCATAGNG CACCTATCAT GACTATTTAT TTAATCTCAG 60
 AAGCTGAATC TGTACGTATT TTTCTCCAGG TCATCAGCTT TGGGNNNNN 109

SEQ ID NO:7561

LENGTH:40

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08807

SEQUENCE DESCRIPTION:

GATCCTACTC TCTTATTAAT ATCTTGAGTT TATGTTCAAA 40

SEQ ID NO:7562

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08808

SEQUENCE DESCRIPTION:

GATCTGCCGA CCTCGGCCTC CCAAAGTGCT AGGATTACAG GTGTGAGCCA CCGCGCCCAG 60
CCATAACTTT NCTCTTTTCT CCATTAGCTA AAAGATAATA GTAAAACGTA TATTTGAACA 120
CTTAATTTTC TCTATATATC TTTNAGGAT TATATTTAGT GTATTTCCCA ATTTTCCTAA 180
AATGATTATC ACTTCTGTAA AGAAGAAAAC AATACTACTG GTATTGCATT TGGAAATATT 240
TTNCTATTAA NNTGTCTCAT TTCCTTTNCA TGTATGCACA TACATGTNNT TNGTATAGCT 300
CCTTTNNTCA AAANNTATTC TGNGGTTATT ATTTANNN 338

SEQ ID NO:7563

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08809

SEQUENCE DESCRIPTION:

GATCTTGTGG TCAAGAGCAA TCTGAATCCA AATGCAAAGN AGTTTGTCCC TGGGGTGAAG 60
TACGGAAATA TTAAAGTAGA CGGGGCCCTC TTTTGGTGGA TGTCACACAA TTNCCACACT 120
GTGAAGGCAG TATTAGAAGA CTTAATTGTA AAANCNCTCT TGTCACGTGT TTACACTTAT 180
GCATTGCCAA AGTTTTNTN AGTCTTGCAT GCTTAATAAA NGTNCTGAGA CTGTTACTAA 240
GTAAAANGCT GTCAANCATT TCCTGANAAT AGANTTGGCC CCATGGCTTG ATGTGAAGAC 300
AGCAAGGNAA GANGCACCAG TCAAGTTGTG ANCAAGNN 338

SEQ ID NO:7564

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08810

SEQUENCE DESCRIPTION:

GATCCCTGCC ACAAGTTCCT TGGGCAGTGG CCATGTCACC ATTGAGATGA AGATATACAA 60
CAGAAAATAG TGGCTGTGTT TGGAAGCTTC AGCCCTGCAC ATTTGAACTA GTCACCTCTCC 120
CAGACTTGCG TGGGTCAGTT CTTTCTGAGT AGAGGACTTG CTGGTAAAGG GGCAGATGCT 180
TTTTATTAGT ACTGATAAAA CAAACTGAGG GAAACATCCC TCTTAGCTGG GAAACTTTTA 240
CTCTTCAGGA GCTTGGCATC ATGGACTGTT AATGTATGTG ATTTTCCCCC TATTTTCTCT 300
CTCCAAAATG ATAAAAACAA TAAN 324

SEQ ID NO:7565

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08811

SEQUENCE DESCRIPTION:

GATCCCACTA CGAAACGCTC CAGAGGCTTC GGTTTCGTCA CGTTCGCAGA CCCAGCAAGT 60
 GTAGATAAAG TATTAGGTCA GCCCCACCAT GAGTTAGATT CCAAGACGAT TGACCCCAAA 120
 GTTGCAATTC CTCGTCGAGC GCAACCCAAG GTGTTCTAGC TGAGCGTTTA AGAGCATGGA 180
 CTCTGGAACC AGACTTTGAA TCCTTGCTCT GCCACTGCAG CTGTGTGACC TTGAGCAAGC 240
 TATCTAAATA TTCTGTGCCT TTGTTTTGTC ATCTGTACAA TGGAGATGAT GATGGTATCA 300
 CCTTCATGGG GTTGTGAN 318

SEQ ID NO:7566
 LENGTH:313
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08812

SEQUENCE DESCRIPTION:
 GATCTGAGAC TCAGGAACCT TGGCCCCCTT GTCACCTACA ACTGTGTGTG AACAGGACTA 60
 ACAGTTTGA CTGAGAGCAC TGANGCTGCT GTGTGTTGTG CATATAACTT AATGCTGTGT 120
 GTTGTGGCTT GCACTGCTGT GGGGGCGGGG AGGGCAGTGG TGGGAATGG CTGGCATGAA 180
 GCTTGCTTGA GCCAATGCTA TGCTTGCTGG GCTTTGGCTG ACTGGCTTTG GGCCACCAAC 240
 TGTATTTGCA TAGTGATGGC TTGGAAGTGT CCATAGAAGG GATTGCAATA AAGGTGTGTC 300
 TTCCTTCTAA AAA 313

SEQ ID NO:7567
 LENGTH:316
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08813

SEQUENCE DESCRIPTION:
 GATCTTGAGT CAGAGAGGAT TGGAAGTGCT TTCTCCTCCA CCCAGGTGAG GTCAGGGGAG 60
 CTTAGGTCTT AGGGAGATGG CAAGTTGAGG TATGAAGGA AGCTGGGGCT TTTGGAGCTG 120
 CCGAACAACCT GAGGGACCCA GTGCGCCTTC CATCCCGCAC TAGTGAATAG CGCCCCCTCT 180
 TCCCCGAAA ACGAGGTGCG AGAGGAACAA TTCCCACGCT GGGGAAGGAC TTGTCTCCTT 240
 TTCTGTGAAA ATGCTTTGTA AAAAGTTGTT ATTGTTTGCA TAGAGCAGAT TCTTGAGAAA 300
 AACTGTTTTG GACCAN 316

SEQ ID NO:7568
 LENGTH:316
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08814

SEQUENCE DESCRIPTION:
 GATCCCCGTC TGCTGACCAG CTAACACCA ATTTCTTCCT GCTTTTCTCC ACTTGGTTTG 60
 GAAAATCACA CAGTTTTTCAG GCTCCATCTG TTTGGAGAAA ATACATTCTG AAGCATCCCC 120
 AATTCACCTT CTA AAAACTC ATGTGCAGGT TTGATAAACA CCAGAACAGA AGACAGTGAT 180
 GCTGTATTAT TTAGATTTA TTACATAGAT TTGGAATTCA CTTTTTTCAT GACCTAGAAA 240
 AAAACATTCC AGTGTTTCANC TGTTTTNTAT TATTANGGGG CTTTNNATT GTGAACCTCT 300
 GANGGCATGA GTGTTN 316

SEQ ID NO:7569

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08815

SEQUENCE DESCRIPTION:

```
GATCTGGTGT ACCAGGCGAA GTGGTCCGAG CAGGCTGAGC GATACGACGA AATGGTGGAG 60
TCAATNAAGA AAGTAGCAGG GATGGATGTG GAGCTGACAG TTGAAGAAAG AACCTCCTA 120
TCTNTTGCAT ATAAGANTGT NATTGNGCT AGNNGAGCCT CCTGGAGAAT AATCAGCAGC 180
ATTGANCAGA ANGAAGAAAN CAAGGGAGGA GAAGACAAGC TAAANN 226
```

SEQ ID NO:7570

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08816

SEQUENCE DESCRIPTION:

```
GATCAAGAGT TAAATAAAAA GCCCCAGGAC GAAACAAGAN GAGAGCACTT CATGCCCTGT 60
GGTACAAAAA AGAGCAGCTC TACTTAATGC AATTCTTCAT TCAGCATATA GCGAGACATT 120
TCTCCTGCCT CATTTGAAAG ACATCCCAGC ACAGCATATC ACGCTGTTTC TTAAGTATTT 180
GTATNNNNNN GTACCTGAAG TGTAGCGAAA ATNCTACTAT GACTCTNCCT GGAATACACC 240
CACCTACCTT GANCCAGATT ATGGATTGGN TATGTCTACT TCTGGATGCA AATTTTNCTG 300
TTGTTN 306
```

SEQ ID NO:7571

LENGTH:304

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08817

SEQUENCE DESCRIPTION:

```
GATCCTGCGA GGGTGTCTATA ATACCTTGCT TTTCCATGCT TCCTGTATAT TTATCCATTT 60
CAGCACATCT GCAGTAGCAA TAACTNCTNA TTTNTAAATT TNCTTTTGTT GGGGGAGACA 120
GGCTTATGGC TGTCTGAGCA GCTGCTGTAG TGTAAGCAGT GAGGTAGCA GTGGTTGTNA 180
GATTTNCTCA TTCCTGAGCA CCATGCTGTT GTGTCAGCAG TTGTAATGGA CTGTGTGGGC 240
ATACTTCCAG TAGGTGATGC TTGCAAGTAN GANCCAGCTG CAGTGGTAGC AGTAGGGTTT 300
GTAN 304
```

SEQ ID NO:7572

LENGTH:30

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08818

SEQUENCE DESCRIPTION:

```
GATCTGTACA AATAAAATNC CAAGTCCAAA 30
```

SEQ ID NO:7573

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08819

SEQUENCE DESCRIPTION:

GATCATCTCT CCTTGGGTTT TNNTTTAAAA AGGGGAATCT NCTATAAAGG TTCTNTTGCT 60
TCAAACCAAT GTCAAATAGA CTTNATTTTA AGAGTCATGG AATTACAGTG CAACCTTN 118

SEQ ID NO:7574

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08820

SEQUENCE DESCRIPTION:

GATCTACCTA TACAGTCCTA CATTAGCTTC TAAAAATTTT GTCAGGAGGG AAA 53

SEQ ID NO:7575

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08821

SEQUENCE DESCRIPTION:

GATCCCGAGG CTTTGTCTTC CTCTCGTCAG TTCTTTTGGT TGTGTTTTTT GTTTTTNTTT 60
NAANAACCTCA AAAAAAAAAAN AAAAGACTTG GAGGAAGGGA AA 102

SEQ ID NO:7576

LENGTH:362

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08822

SEQUENCE DESCRIPTION:

GATCCTACTG ACAGCCATCG TGCAGGTGCT CAGCTGCTTC TNTCTCTATG TCTGGTCCTT 60
CTGGCTTCTG GCTCCAGGCC GGGCCCTTNA CCTCCTGTGG GTGAATGTNC TGGGCCCTG 120
GTTCACTGCA GACAGTGGCA CCCCAGCACC AGAGCACAAT GAGAAACGGC AGCGCCGACA 180
GGAGCGGCGG CAGATGAAGC GGTATAGCC ATTGANATTG TGGCCACAGG CCACTGGGCC 240
CTGGGTGGCT CTGTNAGGGT GCACAGCCCC TCATGCCTGG AGCAATGAGG GTCTAGTCCA 300
GGGGCCAAAA GCAGTCTTGA GGGTATTGGG GTATACTTAT ACTCTATAGG GGTCGTTTGA 360
AN 362

SEQ ID NO:7577

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08823

SEQUENCE DESCRIPTION:

GATCACTCAT ATAACATGTC ATTTTTTTGG TTCTGTTTTG GTTTGGTTTT TGCCAATNAT 60
TTTGTTATAT TTCCAAAAA CTAATAAAA ATNATTTTAA TTTTNNAAA 109

SEQ ID NO:7578

LENGTH:361

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08824

SEQUENCE DESCRIPTION:

GATCTTCACG GGGCTATTAT TTCAGTGACA AAATCCAAAT GCCCCTCTTA TGTGGGTATT 60
ACAGGAATCC TTCTACAGGA AACAAAGCAC ATTTTCAAAA TTATCACCAA AGAAGACCGC 120
CTGAAAGTTA TCCCAAGCT AAAGTGCCTG TTCAGTGTGG AAACCGATGG CTTTATTTC 180
TACATTTACG GGAGCAAATT CCAGCTTCGG TCAAGTGAAC GGTCTGCGAA GAAGTTCAAA 240
GCGAAGGGNN CGATTGACCT GTGANTTCTT TGCCGTCTAA GGCAGTTGTT TATGACAGCT 300
GAAACTGGA CACTCCCTAA NTGTCCACCT TTCAGTGAAG NGATAGTTAA GCCAATTCNN 360
N 361

SEQ ID NO:7579

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08825

SEQUENCE DESCRIPTION:

GATCCAATTC GTGTCTGTGG ATGCTGCAAG GACTGGCTCA TTGGAGCCAA ACCATGTGGC 60
GGAAACTCCT GAAATTGGTG GAAAAAGTGG AATATGGCAG ATTGGGTAGG TAGGAGAACA 120
ATTTTGGAGA TTTTTTTTCT TATGTTAAAG TGTCTGCATT TTATTTGCTG TACCCTGCCT 180
ACTCTGGTTT TNAGGATTTT TTGACTTCTT CGAAAAGCAC TGAATAATCT CTTNCCGGG 240
TCTAGATTTT TTGATGAGTA CTGTGTAAAA TTGTCAATAT TCAATGGATT ATTTAATAAT 300
ANNTTAAGAN TTCACTCAT AAN 323

SEQ ID NO:7580

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08826

SEQUENCE DESCRIPTION:

GATCCTAAGT TAAGACTCTC CAAAGCAAAC ANTTGGTTTA AATCATTTAT CTGATGTAGA 60
TAAAAGGTAG AGAACTTGT AGTGTTCTCC ACATAATGGA AAATGTACAA ATGCCTAGTT 120
GTGTTGCCCA TCAATTTTGT ATATNTCCAT AATTTTNATT GTTGANAATT GCATTATNTT 180
TTN 183

SEQ ID NO:7581

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08827

SEQUENCE DESCRIPTION:

GATCCACCTG CCTCGGCCTC CCAAAGTGCT GGGATTACAG GCAGGAGCCA CCGCGCCTGG 60
GCCTTTTTTT AAGTTTAAAG NNCCNATAAA GNCACTGAAA GGTGATGTGT GTGGATGAGC 120
TAGGAAGACC TGAAATAGGC TCTCTCTAAA TTAATCAAAT TAATCCTGAA GCCATTCTGC 180
AATACTGTCT TTAATGTATA CTCACCTGTT ATAGAAGCCA GGGTTTTTNC CCCTAATTG 240
TATCATTGCT ATATGTGTTA TTGTACCAA CTACACTGTT TTAATTGCTG TAAATTTTAA 300
TATGTCTTAG TATCTGGGTG TGGGAATCTT GANAGCATGG AGTTTGTGTN 350

SEQ ID NO:7582

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08828

SEQUENCE DESCRIPTION:

GATCCTTGGG AGAGCTATCA CGGGAATCCA GGC GTTCACG GCCAGCAAGT GAGCCGCTCC 60
ATCAGGGGCC CGAACTNTC AAGCCCCTTT NTGGAGAGNT GCCTGGCTGG ACCGTAGAGC 120
GCTGTGCTCT GAGCTTAGAA AGGGAGGTGG CGGATGGAGT GGGAAGTGAG AGACACTGAT 180
TTTNAATAT CAAAATTTCC CTTCTGAAGT CGTTCAGATG TTTTCCTTAA AAAGAAGATG 240
GAATTCTCTG TAGAGCGTCT CANTCCACTT TTAACCATGG NTGAGAGCAG ACTCCATTTA 300
CCNTGAAATA GCAGCTTCTT TTGAGGGGAG AGTGACATGG AAGCAACN 348

SEQ ID NO:7583

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08829

SEQUENCE DESCRIPTION:

GATCTGCAGG TTTGGGCATA TGCTTTCATC ATTAAATTAT CTGATAAAGT TACAAGTCAC 60
AAAGGAGAAT GAGAACTTAA TGATTCTATT GGATTTAATA TATTAGCAAG AAANCATACT 120
ATTTCATAT GTNTAGCTTA GTAAGGCATT ANCATAAGTN CAANACCTAT GANACAGATG 180
CNTATTTCTT CAACATACTG TGTCAGGTAT ACTGTTTTAT ANTNGGTTG TTTTAGCCTT 240
ATTGCACACC NNCTCCCN 258

SEQ ID NO:7584

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08830

SEQUENCE DESCRIPTION:

GATCCATTTC ATTACAAGTA AAATATTACA AAATATTTAC AGGAAAATAT TAAAAATAAC 60
TCAAACACAA AAGGCAAGAT GAAATAAACT GTTTTTTTTT CTCCAGAAAT CTCTACTCCA 120
GTGCCACAG CACACAAGAG TCAAAACAAA TAAGCAACTA AGNTCCTTAC GGAAAAGGNA 180

CAGNTTG TTC CTAACCAGA AGAGGAGGTT GCCCAGAAGA AAAAGATATC CCGGAGGAAC 240
CTGAGGANCC NAAACTTTTT GCCCGGGGG TAATTCNGNC TTTNNATTAA TTTNTTTAN 300
NGGGNNNN 308

SEQ ID NO:7585

LENGTH:36

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08831

SEQUENCE DESCRIPTION:

GATCTCTTAT CATAATAAAG AATCTTTGTC ATCAAA 36

SEQ ID NO:7586

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08832

SEQUENCE DESCRIPTION:

GATCTAAGGA GGCCAGTGAA TTTCAAACAG GATTAAAAAG AAAAAAACA GAGTTAGGTA 60
TCAAATTAAG AATACTGAAA GCAAAGATAT AANTAGAACT TTAAAAGCAG CCAGAAAAAC 120
AAACATATTA CATATAGGGC AGCAACANTA AGANTAACCG CTAACTTTGT ATTAANNGTA 180
ATATAATTCA CAATACANTG TAACANCANT TTTNNGTGCT AACNGGN 227

SEQ ID NO:7587

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08833

SEQUENCE DESCRIPTION:

GATCTATTGA GAATGGAATT GTTTTCTTAA TTTCAATTTT AAATTGTTTG TTGCTAGCAT 60
ATAGAAATAC AAGTGATTTT NTATATTGCT CTTGTATCCT GTGACTTTGC TGAGCTTATT 120
TTAGTAGTTT TTTTCACTG AATTCTTTAG GATTTTNTAC ATAAAAAATT CATATCATCT 180
GTGAATAAAG ACAGTTTTAT TTCTNAATTT TAAA 215

SEQ ID NO:7588

LENGTH:43

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08834

SEQUENCE DESCRIPTION:

GATCATATTT TTAAATAAAG CATTTTTTGT AGAAAGTGCT AAA 43

SEQ ID NO:7589

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08835

SEQUENCE DESCRIPTION:

GATCAGGATA ACCAGGATGA TAGCAGTGAC GATGGATTCC TCGCTGATGA CAACTGCAGT 60
TCAGAAATAG GACAGTGGCA TNTAAAGCCT ACTATCTGTA AACAACCTTG TATCCTACTT 120
ATGGNCTCAC TCCGAGGCC TTCTCGGTCA AATGTTGTCA AAATTTTAAG AGAGTATTTA 180
GANGTGGAAT GGGAAGTTAA AANAGGAAGC NNNAGANGTT TTTCCAAAGA GAAAAGAAAG 240
CATAAGGNCA CTTACTCAAC AGANGCACCT TTAGGCGGNG GANCAGNACA TTGTGTCAAT 300
AGTNTCTCNG GTTTGCCCTT TCTNTTACTT GTCN 334

SEQ ID NO:7590

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08836

SEQUENCE DESCRIPTION:

GATCAAATTT AAAAATCAGT TTTAAAAGTG GTTCCCGACT TCTTTCCTTT GGAAGAATTT 60
GGNCTNATGC TCATAAGCAG TTCATGAGTG ACAAGTGTAG CAAAAGCCAG CCATATATTT 120
CNAGANTCTA TATCTCAGG AAATGGTCCT TTTTTTTCCT ATAANTCACC AACCAACTAT 180
CTAANTGGNC ATTTGGGGGA NTTCCCTCCC AAATTTGATT TTNTNATTNG AAAAN 235

SEQ ID NO:7591

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08837

SEQUENCE DESCRIPTION:

GATCCAGAGC ACAGATGGCA AGTTGTGTGG ATGATACTGA ATATNTTAT TTTCTAAAG 60
ATAAATNTCA CGACACGACA TTTCTCAGTT TTAATTTAGA TGTTTATNAC CATGTGTAA 120
CAGAATCTTA AAACCCAAGG NATTTCTTCA GTAACTAGA CTTTGATTCA AA 172

SEQ ID NO:7592

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08838

SEQUENCE DESCRIPTION:

GATCAAGAGG AAGCATGACT TGCACAAGAT GGCAGAGGCC AACCGTGCCC TGGCCCACTA 60
CCGCTGGTGG TAGAGTCTCC AGGAGGAGCC CAGGGCCCTC TGCCGCAAGA AACAGTGTGA 120
GCTACTGCCA CGCTGAAAAC TACCTGTGGG TTAAGGATGT AGTTCCTTTG TAAGGGTGGG 180
CAGGCCTCGT AAGAAAGATG TAGCAGCATA TTTACTATCC GTTAATCCTT CTTTCTTTGA 240
GGCTGGAAC TGCTCTCTCT GCCCCTATTT CTTGTAAAG AGGGAGCACA TTGACTTGGG 300
AATTTCTCC AGGAAACTCA GGGCTGTTTT CTCTN 335

SEQ ID NO:7593

LENGTH:333
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08839
 SEQUENCE DESCRIPTION:
 GATCTGGGAC TTCTTTAGTA TCGAGTCTCC TTTGCACTCT TAAAAATTGT TGAGGACCCC 60
 AGAGAGCTTT TGTTTTTATG GGTTGTATCT ATCAATATTT ATCACATGAG AAATNATTTA 120
 TTTATTTTAA AATAACTTTT TTATTGAGAA AGATAGCAGT GTTTTTTTTT AATCTTGCAA 180
 ATTGTTTAAAT GTTTGATTTA ATGGAAGACA GCCAGATTGT CCTATCAGCA TTCAAACCTGC 240
 TGCAGTAAGT TGTTTTGACT AATGTATATG AGGAAAACCT GACCTCACTG AGATTTTAAT 300
 TGGAAAATGG AGGAGTATTT TNCCAGCCTT TNN 333

SEQ ID NO:7594
 LENGTH:220
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08840
 SEQUENCE DESCRIPTION:
 GATCTCCTCC ATACGGAACCT TTCTCATCTA CGTGGCCCTC CTGCGAGTCA CTCCATTTAT 60
 CTTAAAGAAA TTGGACAGCA TATGAAGACA GGACATCACA TATGAATGCA CGATATGAAG 120
 AGCCTGGTTA CAGTTTCGAC TCCTCTCTGC AAGTGAATAG GCCCAGAAAG GTGTAAGAGA 180
 CTCTTTGAAT GGACATAAAA TTCTGCTTGT TAAGAACAAA 220

SEQ ID NO:7595
 LENGTH:326
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08841
 SEQUENCE DESCRIPTION:
 GATCTGTGCT GGCCACGTGC CCGGNGTCTC AGCTCTGAAC CTGCTGTCCC TGCTGAGAAG 60
 CTCTGAGGGC CCCTCCCTGG AGGACCTGTG AGGGTGGCTG GCCCCTGGGC TGCCCCTTCT 120
 NATGGCTTCG TGCTGACTCC ATAAACATTC TCTGTTGAGG ATGTCCAGTC AGGGCTTGAC 180
 AGGCCCAGGN TCAGCCCGCC GTGGCTGGGA AGGTTCCCTG CAGTGCCAGT GCTGCAGCAG 240
 GGAGAGCTGG GCAGAAGCAG CGAGGGGGCC CAGCTGGCGA GACTGTAGCC CCGTCCCACT 300
 CCCACACTCA CTCTTGTTAG AGCCTN 326

SEQ ID NO:7596
 LENGTH:327
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08842
 SEQUENCE DESCRIPTION:
 GATCAGATGT TGGAACGTGC TATGCTGTAG CGTGTCTGGA AACAAAGTAC ACAAACCTGG 60
 CTACGGTGAT GAGTTAGCTT CTGCTTACTA CCTGTNACAA CCCAAGTGGG TGACACTAGT 120
 GAACCTTCTC CAGTCTGCAG GCTGGCATAG AAGGCTCTTA GATTATATTG GGCAGCTTGC 180

AATCTGCCGA AGCAGTGACT TGCATTTCCA CACTTGGCTT GAGCACTCAA CCCAGAAGGC 240
 GAAGATAGCT TTTGGTTGTA GGCGGCTTCC TGTATGGGAT ATCCCTCGGT AAGGGTAAAG 300
 GAGCAGAGGC AAAGGAGAAA AGCAGTN 327

SEQ ID NO:7597

LENGTH:278

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08843

SEQUENCE DESCRIPTION:

GATCTTTCCT CCCTCCCCTG CATGAGGCAG AGGCAAGCTG CCTGCCAACC CCCTCCCTCA 60
 AGGAATGGCC TTGCCCAGGA ATGCCACCA CACATACCCT CTNCTTTTTT NNTAGTCAAA 120
 CTCTTGTTTA TTCCTTGGNT TGCNTCCCTC CTTCTCCCC TCTCAACCTT TACTTCTGAT 180
 TTNNATTTCA TGGAATTTGG GATTGANGTT AAATAACAAC AGTGCCGCCA ACACCAAGTN 240
 TTGCAGGAAA AAAATACAAA GAAATTTANC ANANAANN 278

SEQ ID NO:7598

LENGTH:202

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08844

SEQUENCE DESCRIPTION:

GATCTTCATT ACCGTTNCAT GATTGGAAAT ANTAAAACA TTGTACAGTT TTAGTATAGA 60
 GAAATNTAAT GGNTTTTTGT AACCAGTTTC TGTCTGCATG TAATTTGGAT TTCTCAAATA 120
 CATTCAATAG TAATTNATCA GTAACATTAG TTTTATTTNN GTCCATCTCC TTATCTATAA 180
 AANGGGGATA TNCTTAGGAT NN 202

SEQ ID NO:7599

LENGTH:47

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08845

SEQUENCE DESCRIPTION:

GATCCATAAT ATAGCATCAC ATCTCAATAA ATTTATTTGG AAGCAAA 47

SEQ ID NO:7600

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08846

SEQUENCE DESCRIPTION:

GATCTGCCCA CTTGGCCTC CCAAAGTGCT GGGATTACAG GCATGAGCCA CTGTGCCTGG 60
 CCCCTTCCTG TAAAATTTN AAATGGAGAA TTGGGTGCNA GATGTGGTTT CCAGCCTGGT 120
 GCCTGGGGTG CTGAGCTANN NGAGTGGTGC AGTCCAGGAC ACCTTTGCTT TATCTCACTT 180
 ACACGGTCAC CTGGAGCCGG CTCAAGTGGC TAAAGCATCC TGGGGCCCAG AGCCAGGTGA 240

TAGGTCCCTN TGGCCAACTG GACAGTTGAG GCCTGTGGTT ACCCGAAGCC CAGCTTGGGG 300
CCCTGGTCCA GCCTNGCCTC CCAGGAN 327

SEQ ID NO:7601
LENGTH:326
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08848

SEQUENCE DESCRIPTION:

GATCTAGATG CTGGTATTGA GGTGGGAGAC AAGTACTGCC ACCNGAAACA ACAGTCTTGG 60
TAAATTTAGC CGACGAGGGT AAACACATCC TAACAGGGAA GGTAAACTGT ACGTCCATCA 120
GTACCACTAG AGGGCATCNC NGGTTTATAG TTCAATACAG TGAATATATC AGANTAATGG 180
CCTTTAGTTT TCCTGAAAGA TTAANTTAGG CTGCTAACT TGTTTAATGN GATANTCAAA 240
CATATGATGT AATTTTAAAG GGTTCACATT TTTANAANTT TAATGGTTGC TACATAAAAN 300
GGGNTTCAGT TAACTNATTT TGC GTN 326

SEQ ID NO:7602
LENGTH:310
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08849

SEQUENCE DESCRIPTION:

GATCTCAGCA GGAACCATG GAAGCACCCA CCCCCTTGCA TTTTGGCTTA CCTGTAGCGG 60
AATGCAACAG AGAATTTTAT ATGCTAAGAT TTGTGGTTCC GTGGGAGAAT ATTTCAAACA 120
GGTGGAAC ATCAAACTAA AAGAGAACCA GAAATCATTT AAAGGTCACG TGAGGAGCTT 180
CTGTNTTGTG CAACTTAAGC CTTACCAGT CTCCTATGCC CAGGTGCCCC GCACCCCAT 240
CATCTGCATA TTCACCATCC TCAGGTCAGA TTCTATGATA CTGNNAATAA AGGCATTCTG 300
GAAAANTAAA 310

SEQ ID NO:7603
LENGTH:287
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08850

SEQUENCE DESCRIPTION:

GATCCGGTCA GCAGCCCCTG TGGCTAGAGG AACACCAGCA CAAACGACAG CCTCAAGTCT 60
CCTTCGAGCT TTATATCCAT TTGGGGATGA AGTCTACTTT NACAGCTAGC AAGGCGACAT 120
GCAACTGTTG TTGAATGATG ACAGCAATTC AGGAAAGACT TAAATATGAA AGCAAATTGA 180
NCACATCGGG TGTTTGTNAT CAGANNAGNG NTGNGATGTG ATAAGACTTG TTTATTGACT 240
AGCCAATATG TCATTCACCT TCNGGTTTAT NTTGTGNANC CCCANN 287

SEQ ID NO:7604
LENGTH:66
TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS08851

SEQUENCE DESCRIPTION:

GATCGAGTTT TGGTTCGGGT TAACTGTGTG CCTACTGAAC CTGGCAAATA AACATCACCC 60
TGCAAA 66

SEQ ID NO:7605

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08852

SEQUENCE DESCRIPTION:

GATCTGGAAT GTGAAGCGTT ATAGAAGATA ACTGGCCTCA TTTCTTCAA ATATCAAGTG 60
TTGGGAAAGA AAAAAGGAAG TGGAATGGGT AACTCTTCTT GATTAAAAGT TATGTAATAA 120
CCAAATGCAA TGTGAAATAT TTTACTGGAC TCTATTTTGA AAAACCATCT GTAAAAGACT 180
GAGGTGGGGG TGGGAGGCCA GCACGGTGGT GAGGCAGTTG AGAAAATTTG ANTGTGGATT 240
AGATTTTGAN TGATATTGGA TAATTATTGG TAATTTTATG AGCTGTGAGA AGGGTGTGTG 300
AGTTTATAAA AGACTGTCTT AATTTGCATA CTTAAGNTN 339

SEQ ID NO:7606

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08853

SEQUENCE DESCRIPTION:

GATCCTTTGT GAGCAAGTTC TATTTGTTCA TTGCTTGCCA GAGATGAACA CAGAATGTTC 60
TGTTTCATTT TACAAGAAGT ATCCTGAGTT TCTGTGGATG GAAACATTAC ATGTAATGCA 120
GATATAGTGA ACACTGGAAA GATTTATTAA AGANTTATAT TTGTGTATAC TTTATAAATT 180
AGTCCCTCAT TAGATTTTTT TTTTCTTAAG CATAAGACTG ANCTTAAATG TGTTAATTTT 240
AGTAGAATCA GGCCTGCTC GCAGAAGGAN CACAGATTGT NGAGATTAAAC ATAAATNGTT 300
CTTGTTCTAA TATATATNTN TNNCCATTC TGTCGAN 337

SEQ ID NO:7607

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08854

SEQUENCE DESCRIPTION:

GATCCGTGGA TTGAGGGTGC CTTTCCATTT ATTTTGGTCT TCTTTACTTT CTTTCAACCA 60
AGTTTTGTAG TTTTCAGAGT ATAAATTTTA TACTTGTTTT GTTCAGCCTA TTAAGTTTTT 120
ATTTTGGTG CTATTGTAAT TAAATCTTC TTAATTTCAA TTTCAGATTA TTAAGTTTAA 180
TATACAGAAA TACAGCTGAT AAA 203

SEQ ID NO:7608

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08855

SEQUENCE DESCRIPTION:

GATCAAACT TTTATAATA CAAAGACATT ATTATTTGNT TTTTCACTG TCCCCTCCTG 60
AATATACAAC GGAGCATTCC AGATGCTAGA GTGACAGCCT CACTCAGACT CAGGGGATGC 120
ATGCTTGCNT GTACAGTACT CGTATGTTTT AAATTTGTTT TAACTCCTAA TATGTAAGTA 180
TCAATAAATA TAATCACCTT AAGTAAA 207

SEQ ID NO:7609

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08856

SEQUENCE DESCRIPTION:

GATCTTCGTG GTGGAAAGCT AAATTTTAAA ACCACCCCAA TGGATGCAGA CAGTGATGTT 60
GCATTGGACA TTCTAATTAC AAATGTAGTC TGTGTTTTNA GAACAAGATG TCATTTAANC 120
TTAAGGAAGA TTGCTTTGGA AGGNGCAAAT GTAATTNATA ANCGTGATGT TGGAAAAGTA 180
TTANTGAGGC TTAGAAAACC TAGANTTACA GCTACANTTN GGTCTCAGG AAANNTTATT 240
TGCNCTGGN 249

SEQ ID NO:7610

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08857

SEQUENCE DESCRIPTION:

GATCTGTAGT ATTTTAATGT GCATCTACTT TAAATGAGTC ATCTTGGGGT TTTTATAATT 60
CCCTTATGTT CTCGCCCCCTC TACACTTGAA ATAACAAAAT GCCTTAATTT TATGGATTAG 120
NTCTCTTATA GGAGACAGGC AGCTATATGN AGCAANCCCA GTAAAGTTAT TTTTCAACTN 180
TCANAGTTGT AAAATATTTT ATAACAGTTT ACANCAACAG CTGNAGANCA ACATGCCACA 240
TTTTNTTTCG AGCATTTTCA AATANTTTGT TTTGTGGTGT NAGCACAGGN TAAANNTGGG 300
GNGCGTCGAT GTGAGGCGN 319

SEQ ID NO:7611

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08858

SEQUENCE DESCRIPTION:

GATCTACAAA AAATTCCTGG AGCCATATAT ATACCCTCTG GTTTCCCCCT TCGTTAGTCG 60
TATATGGCCT ANGAAAGCAA TACAAGANTC CAATGATACA AACAANGGCA ANGTAAACTT 120
TAAGGGTGCA GACATGAATG GTTTACCAAC AAAAGGNCCA ACAGAAATCT GTGATAANNC 180
GNAAGACTAA NGAAATTTTC CNAAGGN 208

SEQ ID NO:7612

LENGTH:321
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08859
 SEQUENCE DESCRIPTION:
 GATCTTCCCA CCTTCAGCCT TCCAAGTAGC TGGGACTACA GATGCACACC TCCAAACCTG 60
 GGTAGTTTTT NAAGTTTTTT TGTAGAGGTG GTCTAGCCAT GTTGCCTAGG CTCCCGAACT 120
 CCTGAGCTCA AGCAATCCTG CTCAGCCTC CCAAAGTACT GGGATTACAG GCATCTNCTG 180
 TAGTATATAG GTCATGAGGG ATATGGGATG TGGTACTTAT GAGACAGAAA TGCTTACAGG 240
 ATGTTTTTNT GTAACCATCC TGGTCANCTT AGCAGAAATG CTGCGCTGGG TATAATAAAG 300
 CTTTTCTACT NCTAGTCTAA A 321

SEQ ID NO:7613
 LENGTH:136
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08860
 SEQUENCE DESCRIPTION:
 GATCCTTCCT AGGGGATGGG GGAAGCCCTG GCTGCAGGCA GCCTTCCAGG CAATATGNNG 60
 ATAGGAGGCC CACGGGCCTG GCAGTGAGAG GTGTGGCCCC ACACCGATTT ATGATATTAA 120
 AATCTCAACT CCCAAA 136

SEQ ID NO:7614
 LENGTH:47
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08861
 SEQUENCE DESCRIPTION:
 GATCCCGTCT CTACAAAAAA TAAAAAATAA TTAGTCGTGG TGCCAAA 47

SEQ ID NO:7615
 LENGTH:36
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08862
 SEQUENCE DESCRIPTION:
 GATCACTTTT TCAATATTAA ATNTTATTTA CATAAA 36

SEQ ID NO:7616
 LENGTH:260
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08863
 SEQUENCE DESCRIPTION:
 GATCATCATG AAATNATAAG AGGGCTTAAG AATTTGTCCA TTTGCATTG GAAAAGAATG 60

ACCAGCAAAA GGTTTACTAA TACCTCTCCC TTTGGGGATT TAATGTCTGG TGCTGCCGCC 120
 TGAGTTTCAA GAATTAAAGC TGCAAGAGGA CTCCAGGAGC AAAAGAAACA CAATATAGAG 180
 GGTGAGGTT GTTAGCAATT TCATTCAAAA TGCCAACTGG AGAAGTCTGT TTTTAAATAC 240
 ATTTTGTGT TATTTTAAA 260

SEQ ID NO:7617

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08864

SEQUENCE DESCRIPTION:

GATCAACTTT AGTCACCAAC CCAAATGGAG GATTNTGCG TTGTGGGNC TTATATGCCT 60
 ATAGNTGTGG ACATTTGCAT TACACAACG GANTCTTNC TN 102

SEQ ID NO:7618

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08865

SEQUENCE DESCRIPTION:

GATCAAGGGG CCTCTCAGAA CCATGTTCCC CAGCCAGGTG AGGACCATT TAAGTGGGAC 60
 CCAGGNCAAA ACCATGTGGG TGCACAAAGC CAGGCACTGC CAAGTGGAAC ATGAGGTTAT 120
 TTCAAATCA TGGGAGCCAC CAGCAGGGAG AGGGCAGTAT GGAAAATCCC CTGGAGCCGG 180
 TCAACTNTT GTCATGGCT AGTGAAATAA AGTTGTTGA GTACTAAA 228

SEQ ID NO:7619

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08866

SEQUENCE DESCRIPTION:

GATCTCTTAC TCCCCAGTT TGAATGGTAA ATTTGAATGG TAAATCCCA TGAACATATA 60
 TGGAATATC TTTATCTAC TTTNTCCAAT AAAGGCTGT CTTAGCTTT AAA 113

SEQ ID NO:7620

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08867

SEQUENCE DESCRIPTION:

GATCACCTGN CAAATGTTG AGGACGGAGC TGTGCAGTCA CATTATTGGG GATTCCACAG 60
 CTGGTGCTGC AGGCCTTGC CCTCCAACCA GGACTTTNT CTTAATGCTC TCGACACTTA 120
 GCTAAACACG ACTATATCCC GGCCCAGCAG GCCCCAGCG CGTTAGTCTC CAGCTGACTC 180
 TGTGGGTTGG TCTTAAAGCA AATTCTGTT TGTGGACTGC CTGGCAATT TTNAGCTAAC 240
 TGTAATGATA AAAAGGGAGT NTAATCTAT TCTGAATCN 279

SEQ ID NO:7621

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08868

SEQUENCE DESCRIPTION:

GATCAAGTTG TGGTGGATAA CGTGTTTCCA AATTGCATCT TGTGCTGAA ACTTCCTGGA 60
CTTGAGAAGT TACTTCATCA TGTGACAGAG GAAAAAGGTA ATCCAGAAAT AGACAACAAG 120
AAATATTACA AGTNCAGCAA AGNGAAGACA TTAAAGTGGC TGGNAANNNN GGTTAATCAA 180
NCTGTGGCAG CATTAANN 198

SEQ ID NO:7622

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08869

SEQUENCE DESCRIPTION:

GATCCAGAAA GTAGCAATAT AGGACTTTAA GGGGTATGTA TTAGTGTAAT TAATATATGT 60
GCAGTCTAGG CTAATCATNT TAATTAAAAA CAAATAAGCA TACTTTTTTN CTTTAAAAAT 120
ATGCCCTCAA AATGGTGGGG GATAAANTGT AAGATATTCT TTAGCTGNNN TTATTTNNCC 180
GNCN 184

SEQ ID NO:7623

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08870

SEQUENCE DESCRIPTION:

GATCCTAAGT CTCTTACAAA AGCTTTGAAT ACTGTGAAAA TTTTTACAT TCCATTTTCA 60
TTGTGTTGTT TTTTAACTG CATTTTACCA GATGTTTTGN TGNTATCGCT TATGTTAATA 120
GTAATTCCCG TACGTGTTCA TTTTATTTTC ATGCTTTTTT AGCCATGTAT CAATATTCAC 180
TTGACTAAAA TCACTCAATT AATCAATGNA AA 212

SEQ ID NO:7624

LENGTH:373

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08871

SEQUENCE DESCRIPTION:

GATCGCAGAC CGCGCTGCCC ACGACGAGTC CCCGGGGAAC AACGTGGTTG GACATCAGCG 60
TGCCGCCCAC CACGGACGGA CAGAAGTCTC TTAAAGAAAA TAGTTTAAAC AATTNGNTAA 120
AAAATTTTCC GTCTTATTTT ATTTCTGTAA CAGTTGATAT CTGGCTGTCC TTTTATAAT 180
GCAGAGTGAG AACTTTCCCT ACCGTGTTTG ATAAATGTNG TCCAGTTTCT ATTGCCAAGA 240
ATGTGTTGTC CAAAATGCCG TTTAGTTTTT AAAGATGGAA CTCCACCCTT TTGCTTGGTT 300

TTANGTATGT ATGGAATGTT TATGGATAGG GACATAGTAG TAGCGGTGGT CAGACCATGG 360
GAANTGGGTG GNN 373

SEQ ID NO:7625

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08872

SEQUENCE DESCRIPTION:

GATCCTACAA GCATGTCTGC TGTAAGTCTA TGTATGTTTT CTGTAAAATC ACATACCTAT 60
AAAATAAAAA GAAA 74

SEQ ID NO:7626

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08873

SEQUENCE DESCRIPTION:

GATCGTGAAC ACTGCATTCC AGCCTGGGTG ACAGAGCCNG ACCCTGCCTC AAA 53

SEQ ID NO:7627

LENGTH:379

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08874

SEQUENCE DESCRIPTION:

GATCTACCCA CCTTGGCCTC CCAAAGTGCT GGGATTACAG GCGTGAGCAC CGCGCCTGGC 60
CCTCTGCAGT TGTTTAATAA GGCACAGAAT ACCTGTAGCA TAGGTCAGCC TTACGATGTC 120
CATGAATTAC ATATTCAGAC GTTTTAGAGC CTGATACATT TTGGAANCGA AAAACAACCT 180
CTACACCTAT TCTACAGTCC GCATTTAAAA CAATAAATTC CTCTATTAAA AACGTAAAGC 240
CGGGTTTGCT TCGTGCCAC AGGGGGTATA TCCAGGAAGG TTATTATGAA GCTGTCAAAT 300
CAAGATGATG GNAATAAGGC AGTTTGAACG GACAGTCTTC CCACAGTCAG GCCATTTTGT 360
CTGATTTGGT TTAGGATTN 379

SEQ ID NO:7628

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08875

SEQUENCE DESCRIPTION:

GATCGGGCGC TGTGCAGTGT GGTCAGCATG GTGAAGAAAG TCATTTCTC GGTGGGCAGT 60
ATTCTCTTT ATCTCTCATT AACTGGAAG TGTTATTTCT GCTGTATCAT CCGTGCTCAA 120
CGTTTTAGTC TGTCAGGCTC ACCTTCTCTC TGGAAGAAGT TTGCTTAACT TGACATTCCA 180
TGTGCCGCTA ATAAAATATA TTTTGAAAGA AA 212

SEQ ID NO:7629

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08876

SEQUENCE DESCRIPTION:

GATCAGAANT AATTACCATT CCCNGTGT TT TGCTGTAGGA CCTTCAGGTC TATGTTCTAA 60
GTGGGGNTTA TGAACTGGT AATAGAAAAT AATGGAGAGC AGTTAAAGAG TTAATATACA 120
TTATTAATAT GNGTGTCTCT TACAGGCACA CAAAGCCTGT AGACTCAACA AATTTACTCC 180
TGAAGTTTTC CAAATTTGCA AAATCTGCAA TTTNTGTGCC ACATAAAGCT NTCCAGAAAT 240
TGAAAANCNG TAAANCACCG GGTCTCANTT TTTTCTGCA TTTCACTGAT ACCTTAANTT 300
ACATAGNTTA NCTTCTTTAN AGCACTACCT TTTTNGCTGT TGNTATTAAN 350

SEQ ID NO:7630

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08877

SEQUENCE DESCRIPTION:

GATCTCACAA CTGCACTCCA GCCTGGTGAC AGAGCAAGAC TCCATCAAAA ATAAACAAAT 60
AAAACAAACA AACAAA 76

SEQ ID NO:7631

LENGTH:185

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08878

SEQUENCE DESCRIPTION:

GATCAAAGTC TGCTTCATTG TCTTGTCCC CATTTTAATG GCAATGTTAG GTATAATNTT 60
TGCTTTTATT AAGTATAATN TTTGCTTTTG TTGGTAGAGT TTTACGATTT TACATCAGAA 120
GTACCTGTTC AACTTAATTG CCACGTTTAA GCATCAATTA AAATATTTTC ATTGAACTCA 180
TGAAA 185

SEQ ID NO:7632

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08879

SEQUENCE DESCRIPTION:

GATCTTTTAG GAATTAACT TGCAAATNAA ATGAAATATG TTGGGACTTT GGCATAATTT 60
GAATATAGCA TTGTGTGAGT TGTGATTGTN TCTTCCTAAT TGTGCTGTAA TAACCTGTGT 120
ATGAGAATAA AATGATTTC ACCATCAAA 149

SEQ ID NO:7633

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08880

SEQUENCE DESCRIPTION:

GATCTCACTC CATGATTACT GTGTAAAATA TTTTGGCACT GTTGTGAAGT ATTTTAACT 60
TTTTTCTGTA CATAACTGTG TTCTCAGAGC TGAATGTTA TATCTTTTGC TGTGCAAAAG 120
AAACANNNA AATGTTGTTT AGTTGTATAT ACAGAAATGT GTATAAAACA TTTTGTATT 180
TTTAAAAGT AAA 193

SEQ ID NO:7634

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08881

SEQUENCE DESCRIPTION:

GATCAAGAAT TTTGTAGAGT GGACAGTCAT TACATATGTT ATAACCTATC CTTTAAAAAC 60
TATTTTAAAC TTTATCCTTT CAGCTTTACT TAGTGCGATG TTTTAGAAGC AGTCTTCAA 120
GAATAAAACA CTAACCATGC ATGTGAAA 148

SEQ ID NO:7635

LENGTH:376

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08882

SEQUENCE DESCRIPTION:

GATCCATTTC TGTGTCCTNT AGCCTAGTAT GTCTGAACTT CCATTCTTGT TATATATTTA 60
AACTTTCCCT CTATATTATA GGNTTNGTGG CNNCCACGGT CAGGTGTAGA GGAAGCTGCC 120
CCTTGCAGAA CTGTACTGTA ATATTTTCT TTTATAAATA TTTTCACAGG ACTGATTGTA 180
CACAGGGCTT GTAATAAAAT TTAAACACTG TGCTGTGAAA CAACTATGGG GAATCTCCAT 240
TGAAGGCTAC TTCATGGGCA CCTGAAAGTG GAGTGTGATA GCTATGACTT TCTATTTCTT 300
GTTTCCTAAG TAAATTAAAC CTAATTTTCA CCCTTTCATT CTGTTTCAGC CTCCTGTNTA 360
AGGAAGTACC GTTTGN 376

SEQ ID NO:7636

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08883

SEQUENCE DESCRIPTION:

GATCCCATTTC ATTGTCCCCT TTGGGGTATT TCCAATACTT GAATGGCAGA TTGGAGTTTT 60
TCAGAGTATG TGTTTCATCT GCTAGTCTTT CTCTCCTTCA TAGCTTTTCT TTTCTGGAC 120
TTGTCCTTT TGAGTTGCTT TTGCGTTTCT CATGCCTAGG CAAGTGTAAT AGAAATTATG 180
TAGTCCTTA TGTTGGCAAA GGAGCTCTAT ATAGTTTCAC TTTGTATACA AGTTAGGNCC 240
AGCTGTTGTT ACATGTAATA TNNTGTTCA GAACTTGAN 279

SEQ ID NO:7637
 LENGTH:373
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08884
 SEQUENCE DESCRIPTION:
 GATCTCTGAT TGCATCTATG TGGATTCTTT TTGGAGGTTA TGTGCTAAA GAAAAAGACA 60
 TAGTATACCC TGGAATTGCT GTATTTTNCC AGAATGCCTT CATCTTTTTT GGAGGGCTGG 120
 TTTTAAAGTT TGGCCGCACT GAAGACTTAT GGCAGTGAAC ACATCTGATT TCCCACAGCA 180
 CAACAGCCCT GCATGGGTTT GTTTGTTTTT TTA CTGCTCA CTCCCAACCT TTTGTAATGC 240
 CATTTNCTAA ACTTATTTCT GAGTGTAGTC TCAGCTTAAA GTTGTGTAAT ACTAAAATCA 300
 CGAGAACACC TAAACANCAN CCAAAAATCT ATTGTGGTAT GCACTTGATT AACTTATAAN 360
 ATGTTAGGTG GTN 373

SEQ ID NO:7638
 LENGTH:53
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08885
 SEQUENCE DESCRIPTION:
 GATCACACCA CTGGCACTCC AGCCTGGGCG ACAGAGTGAG ACTCCGTCTC AAA 53

SEQ ID NO:7639
 LENGTH:363
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08886
 SEQUENCE DESCRIPTION:
 GATCCGAACCT GGACTCACAT CCTGTATGGT GGATGGACTG TATATTGAGG GTTCCATTCT 60
 TCGCGCAGTT TAGACATCTC TGTTTTGATT CTTTGTGTT GTTTTTATTT TAAAAGGCAC 120
 AAACCTCTAGA TATTAGTTGA ATGTTGAGGC TTAACTTTT TCGGTGTCTT TCTACAACCTG 180
 TGTTCTGTGA CTCAATTGTG TCGTGTAAAT ATCAGTACAG ACTGTCTCCT CTACGTGACC 240
 GTATAATGTT TTTCTCTTCT TGTAAGTCTCT ATGGCGTGTG TTTATGGTGT AATAAGGTTC 300
 TCACGGGTTC AATCTTTTGT GTTTAGGGNN NNCACGGTTC AGACCAAATG GTATATAATT 360
 TTN 363

SEQ ID NO:7640
 LENGTH:270
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08887
 SEQUENCE DESCRIPTION:
 GATCTGGTTC TGAGGAGGAC ACACCTGGCA TCGGATGACC TTTATAAATT ATCTATGAAA 60
 ATGCCAAAAG CTCTCAAGCC AAAGAAGAAG AAAAATATTT CCCATGATAC TTTTGGTACA 120
 ACTTATGGAA GGATTCATAT GCAGAAGCAA GACCTAAGCA AACTACAAAC CAGGAAAATG 180

AAGGGGTTGA AGAAGCGACC TGCAGAAAGG ATAACAGANG ACCACGNGGA AAAAGTCAAA 240
AAGAATTAAA AAAAATTGAT GGAACTTAAA 270

SEQ ID NO:7641

LENGTH:336

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08888

SEQUENCE DESCRIPTION:

GATCTCTGAA AAGACGTTAT CACCTTAAAG CTCAAATTCT TTGGGATGGT TTTAACTTAA 60
GTCCATTAAAC AATTCAGGTT TCTAACGAGA CCCATCCTAA AATTCTGTTT CTAGATTTTA 120
AATGTCAAGT TCCCAAGTTC CCCCTGCTGG TTCTAATATT AACAGAACTG CAGTCTTCTG 180
CTAGCCAATA GCATTTACCT GATGGCAGCT AGTTATGCAA GCTTCAGGAG AATTTGAACA 240
ATAACAAGAA TAGGGTAAGC TGGGNTAGAA AGGCCACCTC TTCACTCTCT ATAGANTATA 300
GTAACCTTTA TGAAACGGGG CCNTNTAGTT TGGGTN 336

SEQ ID NO:7642

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08889

SEQUENCE DESCRIPTION:

GATCCATTTC AGATACTTGT GGCAGCAAAC AAAGCAGTTC ACCTCTACAA ACTGGGAAAA 60
ATGAAGACAA GAACTCTATC TACTGAAATN ATTTTCANCC TTTCCCCAAA TAACAATATT 120
TCAGAGGCTT TGAAAAAATT TGGTATCTCA GCAAATGACA CTTCAATTCT AATTGTTTAC 180
ATTGAAGAGG GAGAAAAACA AATAANTCAA GANTACCTAA TATCTCAAGT AGAAGGTCAT 240
CAGGTTTCTC TGAAAANTCT TCCTGAAATA ATGATTATTA CAGANGTCAA ANAGGTATAT 300
AANCTCTCTT CACAGGNGGN ANGTATCGGA N 331

SEQ ID NO:7643

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08890

SEQUENCE DESCRIPTION:

GATCCACTGT CCGGCAGAGG AAAAATGCCA GCTGTGGGAC AAGGAGTGCA GGCCGCACAA 60
CCTCGGCAGG CACCGGGGGG ATGTGGCGAT TCTACACAGA AGATTCACCT GGGCTCAAAG 120
TTGGCCCTGT TCCAGTATTG GTTATGAGTC TTCTGTTCAT CGCTTCTGTA TTTATGTTGC 180
ACATTTGGGG CAAGTACACT CGTTCGTAGA TTCAGTTACA TCCATCTGTC ATCTGAAGAA 240
GGAGGAAAAA ACCCAACATT TCTTGGACCA AAAGTATAGT GACTATCTGT TCATGAGAGA 300
AATTTTCTGT NAGCTTGCTG TTTTGAN 327

SEQ ID NO:7644

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08891

SEQUENCE DESCRIPTION:

GATCAAGATG AAGTTCAGCT AGAAGTCATA CCACCCTCAG GAATCAGCTA AGTAATTATN 60
ACTTGATTCT TTTAGCAAAT CAATGCACGT NATCCTACTT AATCCTTAAA TAAGTTTATA 120
TTTAACTAAC CCAAAGTCCA GGAGGATGTT CTTACAAAAN TAGCTATATC ANGGGCTGGC 180
ACCTAGACAT TAANCTGTAA TTNGANAATA AGCAACATGT TGCATAACTN GTTGAATAA 240
TTCCTTGTC TGTTTAACAC TTGTCATAAN TTAGCAGNGT AANNNTN 287

SEQ ID NO:7645

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08892

SEQUENCE DESCRIPTION:

GATCTACCCA ATTAGAAATG CAACTTGAGA AACCCAAACC TGTAACCA GTGACGTTTT 60
CCACAGGCAT CAAAATGGGT CAACATATTT NACTGGCACC TATTCACAAG CTTGAAGAAG 120
CTCTGTATGA ATACCAGCCA CTGCAGATAG AGACATATGG ACCACATGTN CCTGAGCTTG 180
AGATGCTAGG AAGACTTGGG TATTTAANCC ATGTCAGAGC TGCCTNACCA CAGGACCTTG 240
CTGGAGGCTA TACTTCTNCT CTTGCTTGTC ACAGNGCACT ACAGGATGCA TTCNGTGGGC 300
TTTTCTGGCA GCCCAGTTAA CCATTTN 327

SEQ ID NO:7646

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08893

SEQUENCE DESCRIPTION:

GATCTGGCTG CTCATGAAGA CAAAGTTCTG AGTGTAGACT GGACAGACAC AGGGCTACTT 60
CTGAGTGGAG GAGCAGACAA TAAATTGTAT TCCTACAGAT ATTCACCTAC CACTTCCCAT 120
GTTGGGGCAT GAAAGTNAAC AATAATTTGA CTATAGAGAT TATTTCTGTA AATGAAATTG 180
GTAGAGAACC ATGAAATTAC ATAGATGCAG ATGCAGAAAG CAGCCTTTG AAGTTTATAT 240
AATGTTTTCA CCCTTCATAA CAGCTAACGT ATCACTGGGG CTTATTTTGT ATTTTATAAT 300
AAGNTAGGGT TGTGTTTTNT NAAATNCGN 329

SEQ ID NO:7647

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08894

SEQUENCE DESCRIPTION:

GATCTTCAAG TGAACATCTC TTGCCATCAC CTAGCTGCCT GCACCTGCCC TTCAGGGAGA 60
TGGGGGTCAT TAAAGGAAAT CTGGGACAAC AAA 93

SEQ ID NO:7648

LENGTH:283

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08895

SEQUENCE DESCRIPTION:

GATCTGCATG CATTGCTTGC ATTTTNTTGG TATCTGAATG TTGGTTCCTT GTTCCAGGAA 60
TTCAACATTA NTTTCAAAA GTATCATGGG ACTTGTGACA ATACANGTCA TGAATCTATG 120
TATAAAATTT ATCGGCCTTT CTCATTTACC TGCTCTAGTA TTATTGTATT GTGTGTGCGT 180
GCGTGTGTGA TGTCAGGCTG CCACGTAAAA CTTCAGAGGA AAATCTTAAA NGCAGGCCAT 240
CCTTTTNGC ATGCTCTATT CTAAGTAGGA ATGTTCAATG TAN 283

SEQ ID NO:7649

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08896

SEQUENCE DESCRIPTION:

GATCACCTGT AGGTCAATAG TTCGAGACCA GCCTGGCCAA CAAGGTGAAN CCCATCTNTA 60
CTAAAAATAC AAAAAATTAG CCAGGTGTGG TGGTGTGCAC CTGTAGTCCC AGCTATTTGG 120
GAGGCTGAGG TGGGAGAATC ACTTGAACCT GGGAGGCGGA GGTTCAGTG AGCTGAAATC 180
GCGTACCACA CTCCAGCCTG GGTGACAGAG CGAGACTGTG TTTCAAAGAA AAAAAANAACC 240
AGGCAGCCTT TTGCTTGGTT GGAATCTGAT TTTCTN 276

SEQ ID NO:7650

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08897

SEQUENCE DESCRIPTION:

GATCTAAATA TTCAGGTTTT AAGCCTGCTG CAAACTTTTA AAATATTATG ATAGNTTCTG 60
TACTACATGT GGGAAACAAG CAAGAACTAA ATAATCAAAT GTTGTCAACC AAAAGTAATA 120
GTTGGGTATT GGAGATTTTT TTTAAATGTT TTTATGTTAT TNGCTATTTG GAGTTAAATA 180
AA 182

SEQ ID NO:7651

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08898

SEQUENCE DESCRIPTION:

GATCTNAGAA AACGTTTAAT ATCAGATTN TTTATTTTN CCAACACAAC TGAATCAGTT 60
TTCTTAAATA AAAGTTTATT GTCTACTGTT AAA 93

SEQ ID NO:7652

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08899

SEQUENCE DESCRIPTION:

GATCTAAAGT TAGTTGCCTT TGCCTGTAAA ACATGTGATT TGCAAATTAT TATTTTNNTT 60
TTTTTTAACA AATGGAAGTA AATTTGTTTC ACGTAAATCT TAATTTTCAA CCTTTCTGGA 120
TACCTTAATT GTAACGTCA GTTTGCACTG GTCGGTATAT GGAAACACAT TGCTCTACCC 180
TGCTACTTAG TTGNTTTTAA AGTGAATTTN CAGTGATGNG AAATTTGTGA AANNTATATT 240
GTATTTCTTT TGATGTTTCA AAAGGTTGCC TATGN 275

SEQ ID NO:7653

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08900

SEQUENCE DESCRIPTION:

GATCTTTAGG TGTTGAACTG GGAATATGCT CTGCAACACC CAGGATTAGG ATAGAGATGG 60
ATTTTCATTT ATATGGGCTA GCATATTATT ATTAAAGACC ATTTCAGGAG TGGGACTGTG 120
AAAGGAGGTG CTCTGTTATC TGGTCCAAGA GCTCCTCTGG GAATTAATCC TGGCTGGTTC 180
TGATGAGCTG GCAAGNGCA GNGGATTGCA GTCTTTAAGT AGAAAATTNG AACCCCATCC 240
ATATAACACG TGNACGTGCA TTAAATAGCT TGAATTGTN 279

SEQ ID NO:7654

LENGTH:264

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08901

SEQUENCE DESCRIPTION:

GATCAAGACC AGAAAGAAAT TATTGATACC AATGGAGCTG GAGATGCATT TNTTGGAGGT 60
TTTCTGTCTC AACTGGTCTC TGACAAGCCT CTGNCTGAAT GTNTCCGTGC TGGCCACTAT 120
GCAGCAAGCA TCATAATTAG ACGGACTGGC TGCACCTTTC CTGAGAAGCC AGACTTCCAC 180
TGATGGAAGA GCTGAAAACA CAAGCCCAGG AGTGCAGACA CTGCCCTAAT TGCTTCCTGA 240
GAATTCCTCAT ATTAATAAAG ANGN 264

SEQ ID NO:7655

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08902

SEQUENCE DESCRIPTION:

GATCTTTTAG GAAAAAAAT AAATATTTT AACATTAAAG CAGTCACTTT GGTTTATCAA 60
A 61

SEQ ID NO:7656

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08903

SEQUENCE DESCRIPTION:

GATCTGTTTG CTTAGCTGTC AACAAAAAGA AAACCTGAAG GAGCATTTGG AAGTCAATTT 60
GAGGTN 66

SEQ ID NO:7657

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08904

SEQUENCE DESCRIPTION:

GATCTNACTA AGCTTTCTTA GGAAGGGAAA GCATCTGGCA AGGAGTAAAA TGTCTGTTTC 60
CAACAATTGT CCCTGTTCCC ACTACTTTTT AAAAATGTCC TTAGTAAAAA GTGTATATGA 120
GGCAAGATTA TATTGAAAAA NTGAATATAA GAAAAAATA TTATGTTAGA GAGNAACGTA 180
TTCAGCATTG TTNTCAAAAT CACAACTGT TAGGNGACTC TGACATCAGG TTTGTTCTCC 240
ATATGCAGCA AN 252

SEQ ID NO:7658

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08905

SEQUENCE DESCRIPTION:

GATCTACATG GATGTTCTGT TCTCTGAACT GTCTGGATGA ACCGGTCAAC GGCACTCATC 60
ATACCTTAGT TTTTAAATCT GCATTGTGGT CATAATCTGT TATTTAATTA ATTTCTCGTA 120
TTTTTAATAA AAACTTTGCC TATATATTTT AAA 153

SEQ ID NO:7659

LENGTH:23

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08906

SEQUENCE DESCRIPTION:

GATCCCAAAA GTAGCAAGAG AAA 23

SEQ ID NO:7660

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08908

SEQUENCE DESCRIPTION:

GATCAATTGC AGAATGATAC AGATAGTACA ATGACTTTTT TGTAATTTG AATTAAAAGT 60
TTCCTCATAA AACTCAGTAC TATCTATTGG TAATGGATGC ATATATGTAT GTACATGTTT 120

TTNAAACGGA TTGAAGGAT ACAGACCAAA CTCTTGATAG TGGTCACCTG TGAAGAGTGG 180
 AGAAGGGAAA ATNATGAGTG TGGGAGGTGG GATGGGTATT GGTAAANGGG GACTTCAGCT 240
 TTTTATATAA ACATCCACTT CTCTTTCAAA AAGNCTTCAN 280

SEQ ID NO:7661

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08909

SEQUENCE DESCRIPTION:

GATCATTTTA AAAAAGTAA TCTATATNAT NTTAACTTC AGAAGGCATC ATTTATAAGA 60
 CAGTATGGCA GTTAATTATA AAATNATTTT GATGAATTAT GATACAATCT ACATAATAAA 120
 GAATNCTTTT GATTAAA 137

SEQ ID NO:7662

LENGTH:305

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08910

SEQUENCE DESCRIPTION:

GATCCTAAAA CTGTCTCTCA CATTATATAG TAGATGTTTG TTTATAATGT TTACAAAACA 60
 TTTTGGTGAA TTCTCTCAAT GTTTTATAAA TGTACATTTT TTAAGTCCTT AAGCTGACTC 120
 TTAGCCATCA TGTAGCTTAA GGAGTCTGAA ATCTGCCATT AAAACTGCAC CTTTAAGCCA 180
 GGTGTGGTAG CATGTGCCTA TAGTCCCAGC TACTTGGGAG GTGGAGGTGG GAGGATTATA 240
 AATAGAGACT TTCCTTAAGA CTTTAAAAAT GTATTGNNA ACTATTTTTT ATTAAATACT 300
 TTGTN 305

SEQ ID NO:7663

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08912

SEQUENCE DESCRIPTION:

GATCCTAACC TTGAAGTATG CCTTGAAGTT ATTAACATGG CCATTATAAG AATAAAATAT 60
 GTAGTTGTGT CTTAATGGAA TTAATAAATG TCATTTCCT AAA 103

SEQ ID NO:7664

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08913

SEQUENCE DESCRIPTION:

GATCAAGGAA TAAAGAATCA TTAAGAATG GGGTGTTGGG GGTCTCTTA ATTATCAGTG 60
 ACACATTAAT TTTTTTCCTT AGAGCTTCAT ACAATAAACA CATTGCAGAA AGTTTTAGAA 120
 AGTTTTGCAG GACCTTAAAT TTTCTGCCCT GACACTTTTC GTCATGTTTC CTGTATTCCN 180

GGTTATTGTA GCGCATGCTT TTCAGGTAGT N

211

SEQ ID NO:7665

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08914

SEQUENCE DESCRIPTION:

GATCTTAAAT TTTGTGATAT GGAGCCCTGT AATNTTTTTC TTATATAAAA ATGGGTATCT 60
ATATTCATAA A 71

SEQ ID NO:7666

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08915

SEQUENCE DESCRIPTION:

GATCCCAGCT CATGGCACAG CCGTTTGTAT CCTCGGAAGA ACGGAAGGAA CGATGGGAAC 60
AGGGCCAGGC TGATTATATG GGAGCAGATT CCTTTGACAA CATCAAGAGG AAACCTTGACA 120
CTTACCTCCA GTAGAAACAC TGCATTTTTC TGTGAACACA TCCACTTCAC AAGCCTTGTT 180
TCTGATACTT AGTATCTAGA GCTGGGTTGA GAAAAGTCTG TTACAGTTGC TAGAGGTTTT 240
CATTAAANCT TATCAGGNGG GCGGCTTTTT TAGGATAAGA GGTGAGAACT GGGCAAAAGT 300
TGTGAAGCAG CAATTCTGTT ATATGGNCAG TGTTCTGCTT TTTN 344

SEQ ID NO:7667

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08916

SEQUENCE DESCRIPTION:

GATCACGACT GCTGCACTCC AGCCTGGGTG ACAGNGCGAG ACTCCATCTA AAAAAACAAA 60
AAGCAAAAAA ACCACAAAT ACCTCATGGA GATGAACTGT AATAATTGCT TAAAGTTCCA 120
TTTAATTATG TTAACCTAA TCTAGCAAAA ACATAGATGT ACTTAAAAAT AAATCATGGA 180
TAATGATTTT TTAACCTAAA 200

SEQ ID NO:7668

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08917

SEQUENCE DESCRIPTION:

GATCTCATTT TCAAGTNTGA GTCTGACCAA CCATGGAAAA TATTCGACAT GAATTAATGT 60
AGAGAACTAT AAAGCATTTA TGACAGCTCC AAGAAAAGTC ATCTACTCTA TGCAGGAGAT 120
ATGTTTAGAG ACCTCTCAGA AAAACTTGCC TGGTTTGAGG GTACACAGTA CCATTTTAAT 180
CTTCTGAAAA TATCTGTATT CCTGCTCTGG GGNTGCTGTC ACTGTCAATC TGCTATATTT 240

TTCACTATCC TATTAAAATA TTA CTGTCTC CTTTAAA

277

SEQ ID NO:7669

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08919

SEQUENCE DESCRIPTION:

GATCTTCTAC ATTTATATTT TTAATCTTCT GTTAAATACA CTTCCGATA TTGCCTTGCC 60
TTTTGAGCTC TTGCTACAGT CGCCTTTGCT ACTGCTTTAA GAGAATTTAC AGGTATTGAT 120
AAAGAACAAG ACTGTTTTAT TAAAAGNTTT ATTCAACTTG AAA 163

SEQ ID NO:7670

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08920

SEQUENCE DESCRIPTION:

GATCCAAATC TGGTTCAAAC ATTCAAACT TCAAAGATAA TTCATCTTTC GCTAATGCTT 60
GTGGTTCTGT NGTTCCCTTG AAAAAAATA AAAACCCGAC CCAGCAGCAA A 111

SEQ ID NO:7671

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08921

SEQUENCE DESCRIPTION:

GATCTGTCAC TGTTCCCCGT CACCCTCAGA TGGGACCGTC TAGTTGTAGG AAAACAAGCT 60
CAGGGCTCCC ACTGATTCTA CATTTTGGTG AGTTGTATAA TTGTTATGTA TTGCAATGTA 120
ATAATAATAG AAATAAAGTG TACGATAAAT GCAAA 155

SEQ ID NO:7672

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08922

SEQUENCE DESCRIPTION:

GATCTGGAGA GGTTGTTTGT GAAAGTGGAG AAGATTCACG AAAAGGTCTA AATGAATTGC 60
GTGTGCAGGG CGCGGATTTA AAGTCCAATT TCTCATGACC AAAAAATGTG TGGTTTTTTC 120
CCATGTGTCC CCTACCCCC AATTTCTTGT CCCCTCTTAA AGAGCAGTTG TCACCACCTG 180
AACACCAAGG CATTGTATTT TCATGCCCAG TTAACCTATT TACAATATTT AAGTTCAAA 239

SEQ ID NO:7673

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08923

SEQUENCE DESCRIPTION:

GATCCTTTCA TTAATCAGAA CAGCAGCTTA TNAACTGCTT CATTTTCCAA AAGTGTTTCC 60
CAAAAATCAG AAACCTAAAC ACCCAACAAC AGGAATTATT GCCATCACAT TGGCGTTTTA 120
CATATGTCAC GAAGTTCACC TAGCTGGTTT TAAATACAAC TTTTCTGANC TCAAGAGTCC 180
TTTGCACTAC TATGGGAATG CCACCATGTC TTTGATGANT AAGAACGCGT ATCACAATGT 240
GACTGCAGAG CAGCTCTTTT TGAAGGACAT TATAGAAAAA ANACCTCGTA ATCAACTTGA 300
CTCANGATTG ACTCTACAGA CTCGGAN 327

SEQ ID NO:7674

LENGTH:377

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08924

SEQUENCE DESCRIPTION:

GATCTCCNT AATTGGGAAT GAANGATTTC ACAGACTAGA GTCTCCGATG CTGGTCATGA 60
TGTCAAAAC AAGTTCTGAC TCATTTAGGG AACTGGATAC TTGGGTCTCC AGAAGGGCCA 120
ATGGGAGGGC CATAATTCTG TTTATTTTCA AATTGTCTTG TTTTCACCTT GTTAGAATGA 180
NCTNTGGAAG CCCAGCCAGG GACAATGCAC CTTACAGAG ATTCTGCACT AATCTGAGTG 240
AAGGTCTAAG GTTTGGAATC TCCCCCTCAT GGAGAGAAGC TTTGTATGGC TGTCATGCTT 300
AGACAGTGAT TCCTGCAACT TGACCTTCAG GCTGGGAGAG GTNGAGAGCC ATGCCTGTTT 360
CTCCTTNCTT TGCTATN 377

SEQ ID NO:7675

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08925

SEQUENCE DESCRIPTION:

GATCTGCTTC CCGCAAGACT CACAGCTGTT GGCAGGAGAC CTCAGTTTGT TGCCACATGT 60
TCCCCTCCAG AGGGCCTCTC ACAACATGGC AGTTATTTGT CCCCAGAGCA AGCAACACCG 120
GAGGGCAAGG AAGAAGCCAT GATGTTTTTT GTAACCTAGC CTCTGAAAGT GTCATACCAA 180
TTCTGTATTT TGTTGGTCAC ACAGACCANG TCAACTACAA CGTGGGAGAC TCCTACACAA 240
GGCATGAATT CTAGGAGGTG GGCATTTTTA AGTGTCTATCT GGAAGGAGGC TGTCACAACC 300
TGGAAGTTAA AAGCATTGAT ATTCTGAAAT ACAGCGTGTA TTACCATGGN 350

SEQ ID NO:7676

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08926

SEQUENCE DESCRIPTION:

GATCTAGAGG AGGATTGCA GGAAGAGCTC GTGGAAGAGG TGGTGGCCCC AGTCAAACT 60
GGAACCAGGG ATATAGTAAC TATTGGAATC AAGGCTATGG CAACTATGGA TATAACAGCC 120

AAGGTTACGG TGGTTATGGA GGATATGACT ACACTGGTTA CAACAACAC TATGGATATG 180
 GTGATTATAG CAACCAGCAG AGTGGTTATG GGAAGGTATC CAGGCGAGGT GGTCAACAAA 240
 ATAGCTACAA ACCATACTAA NTTATTCCAT TTGCAACTTA TCCCCAACAG GTGGTGAAGC 300
 AGTATTTTCC AATTTGAAGA TTCATTTGAG GGNAN 335

SEQ ID NO:7677

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08927

SEQUENCE DESCRIPTION:

GATCCAAATT TGAAGCTCCA AGGATAGGAA AAAGCTTACT TGTGCCTGTC CTAGACAAGT 60
 ACTAGAGTTT ATATTGAAAT CAAAACCTCT AAAAATAAAA ATCAGTAAGA TTAATTTTAC 120
 TCATTTTCTT AACACGAGTC AGTATGCTTG ANGTTTTCAT TGTATTTGAT GTCATGTAAA 180
 TTTACTGTAA AAAATAAGAA AANNTTTTAA AATGCTTTAT TGATTAANTT TAGGGTTGCT 240
 TTTCAGTATA CTCAGTAACT CCGAAGTCAG TGTTAACAGT ACTGAGCTTA CATAN 295

SEQ ID NO:7678

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08928

SEQUENCE DESCRIPTION:

GATCTTTTGT TAACTTTAA ATGGCCTGAG TCCATAGAAA CTGCATCCTG AGAGGTTGCT 60
 CGGCTAGAAA GCGGAAAACC GCTTCACATG AGTGCTCTAC TTTGTAATGA AAATAAACAC 120
 TATTAATACA GGCAAA 136

SEQ ID NO:7679

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08929

SEQUENCE DESCRIPTION:

GATCTGGGAA CGGAAGATGA ATGAATGGAA GATGAATGGT TTCTCTCCCA GTTTTCTCTG 60
 AGGCAAACAT AATTATACCT NCTCCTTTGT TCTGGGAGGT TTTTCTCTTC TCATCTCCCC 120
 TCCATTACAC AAAACAGAGT TGGGTCTATA TTTNACCCGG CTGGCTCTTG GAACTGCAGG 180
 GAATCCTGGC TGTTTTCAAT TTTAAAAAAT TATGAGATTA NCTACCAAAC TTGAGATGTA 240
 AGTTGTGGGT TAGCTCTCGG ATTCTGCTAG ATAACCTGGA ACAAAGCATT AACTTCTTTG 300
 AGAGCTTCN 310

SEQ ID NO:7680

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08930

SEQUENCE DESCRIPTION:

GATCTGCCAT GTAGGAATGA GACAAATACA GTTTGCTTAT GAAAGGAAAG TGGCATACTT 60
TTAAATTGGT CTACACAGAA AAGTAAAAGT AACTATTCA TTAAATAAG ATTCATTATC 120
TAATAAATAT TGAGGGAATA TTTTCCTAA ATAAAAATTT TTCTGACTGC TAACAAA 177

SEQ ID NO:7681

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08931

SEQUENCE DESCRIPTION:

GATCTAAGCT TTCTTTAATA TAAAAAAAT NATACTTCTC TGAAGTGTTC AATAGAGCAA 60
TAATTAAATA CATCTTCTGA TAAA 84

SEQ ID NO:7682

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08932

SEQUENCE DESCRIPTION:

GATCTGTTGG GAAAGATAAG AAAGCTATTC AGGCATCAAT TAGACGTAAT AAGGAAACCA 60
ACACCGTTTT GGCCAGATTG AATAGCGAAT TGCAGCAACA ATTAAAGGAT GTTCTTGAGG 120
AGAGAATTC CCTGGAAGTT CAACTGGAAC AACTTCGACC ATTCTNTCAC CTATAAGCCA 180
ATTGCCGTTA ACTGTGAACA TACTTGTTTT TAAGTGGTTT TGGGTTCAAA GCCAATTG 240
AGACCTAGAC ATTCAGCTCA CTGCTTAACT CACCATTAAT TTTN 285

SEQ ID NO:7683

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08933

SEQUENCE DESCRIPTION:

GATCTCAATT CTGTTTCCTC TCACATGATT ACTTGATAGC TAAGCATCTG ATTGGTTTAC 60
TGCTTTACCA CTGAGCTGAA ATGCCGTGTT TTCCATTTAT TAAATCACA CATGGCTCCT 120
GTTTTNTCA CTCAGCACTT TTTCTCCATA TTCTTCAAGA CGATTGTGAG TATGGTACGT 180
AACAGGAATT ACATCTGGTA AGTTGTATAG TTTTGTGTAG GAACTCTATA TTCATAGCAT 240
ATTTGTGGAA ATGATACCTA TGGAGGTTTC TCACACTGGT GTGTCATTAT ACATTAATTG 300
TACAATATGC ATN 313

SEQ ID NO:7684

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08934

SEQUENCE DESCRIPTION:

GATCAGTAAT GGCAAGAGCC TTNATTCTC GAATGTTTAA AGCCTAGGAG TTCTACAAAA 60
TTGGNTTCTT TCTACAAGAN TCCCAAAATG GAATGCCTAA AGAGGTNTNN 110

SEQ ID NO:7685

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08935

SEQUENCE DESCRIPTION:

GATCCCAAAA ACCGGGCAGC CCAGGAAGGA ACTGGGGAAG GTGGTCATTG AGGGGAAGAA 60
CCAGGATGCA GGGCTGGCTC AGGGTCTGCG CAAGATGTTT GGCTGATTAA AAGTTAAACC 120
TAAAAGAGA AA 132

SEQ ID NO:7686

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08936

SEQUENCE DESCRIPTION:

GATCCCATGC CTGAAATNTG GAAGCATATG TACAAAAATC ATTTTACGT TTTATTTTAA 60
ATAAATCATT GTGTTTGACC GTAAA 85

SEQ ID NO:7687

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08937

SEQUENCE DESCRIPTION:

GATCCTAGTC ATGACTATAC ATTGTGACAT GGTCATTACA TATGGATTAG ACCAACTGGA 60
GAATTGCCAG ACTTGTGGTA CCGATTATAT CATCTCAGTC TTGAATTTAC TCACGCTGAT 120
TGTTGAACAG ATAAATACGA AACTGCCATC ATCATTTGTA GAAAACTGT TTATACCATC 180
ATCTAAACTA CTATTCTTGC GTTATCATAA AGAAAAAGAG GTTGTTGCTG TAGCCCATGC 240
TGTTTATCAA GCAATGCTCA GCTTGANGAA TATTCCTGTT TTGGAGACTG CCTATAAGTT 300
AATATTGGGN GANATGACTT GTGCCCTAAA CAN 333

SEQ ID NO:7688

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08938

SEQUENCE DESCRIPTION:

GATCTGATTC GCTCCATCAA TGACCCGGAG CATCCACTGA CGCTAGAGGA GTTGAACGTA 60
GTAGAGCAGG TGCGGGTTCA GGTTAGCGAC CCCGAGAGTA CAGTGGCTGT GGCTTTCACA 120
CCAACCATTC CGCACTGCAG CATGGCCACC CTTATTGGTC TGTCCATCAA GGTCAAGCTT 180
CTGCGCTCCC TTCCTCAGCG TTTCAAGATG GACGTGCACA TTA CTCCGGG GACCCATGCC 240

TCAGAGCATG CAGTGAACAA GCAACTTGCA GATAAGGAGC GGGTGGCAGC TGCCCTGGAG 300
AACACCCACC TCTTGGAGGT TGTGAATCAG NTN 333

SEQ ID NO:7689

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08939

SEQUENCE DESCRIPTION:

GATCCATGAA CCCTTTTAT AAGCTGTGTG TGTCCTCTGT ATTATTGTTA TTAAGTATTT 60
TTTAGNATTT GCCTGTAAGT TATTAAAGAC TGATAACTGT AGCTCTTAAA 110

SEQ ID NO:7690

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08940

SEQUENCE DESCRIPTION:

GATCCAGCCA AACGAATTC TGGCAAAATG GCACTGAATC ATCCATATTT TAATGATTG 60
GACAATCAGA TTAAGAAGAT GTAGCTTCT GACAAAAAGT TTCCATATGT NATGTCAACA 120
GATAGTTGTN TTTNNTTGT TAACTCTTGT CTATNTCTCT CTTATATATA TCCNCTNTT 180
ATCAA 186

SEQ ID NO:7691

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08941

SEQUENCE DESCRIPTION:

GATCATGTGA CCAATTGTGC ATTCAGTTTT CAGAATTCTT TGCTATATGA TTTGGATTAA 60
TTCTATATAA TTTTGGACTT TTAAATATTA AGGTAAAAA ATACCTGTAT CTTAAATTGA 120
TTCTGTAAAC TGTTGTCTTA AAATAAAGG TATTAAAGTA TAANNTTAAA ATNGCAATT 180
TTTTTAAAN NNTTGCAATT TTGATTCTCA TGGGGGAAAT TGGAGATAAT N 231

SEQ ID NO:7692

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08942

SEQUENCE DESCRIPTION:

GATCACAATT TAATAACAAG TAAACTTTA CTTTTGACAA TTTTGCCACT TATTTTGTA 60
TTTGTAAGCA CACGTTTGAA GATATATTTA TGCCATTAAT ATTTTAAGGC ATGTTTTAA 120
ATTTACTGTT TTCTGAAAAA TTAAATGNNN CTGGTTTGAT TGCTGGAGAT TTATTCCAGT 180
TTTNTCAAA TGTATTTTNA TNCTGTATGG TACATTTTNG NGGATTNCCT GATTAATGTC 240
ATCTTAGCAT TATATTCTGG TTATCTATAA TNNANN 277

SEQ ID NO:7693

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08943

SEQUENCE DESCRIPTION:

GATCTGGGCA AAGCAAATTG AAAACCTTCT GGAAAGGATT CACCATTTTA GATGCCATTA 60
AAAACATTCTG TGATTCATGG GAGGAGGTCA AATTGTCAAC ATTAACAGGA GTTTGGAAGA 120
AGTTGATTCC CNNCTCATT GATGACTATN AGGGGTTCAGT GACTTCAGTG GAGGAAGTAA 180
GTGCAGATGT GGTGGAAATA GCAAAAGAAC TAGAATTAGA AGTAGAGCCT GAAGATGTAA 240
CTGANTTGCT GCAATCTCAT GNTAAANCTT TAACAGNTGA GGAGTTGTTT CTTATGGNTG 300
CGCAAAGAAA TN 312

SEQ ID NO:7694

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08944

SEQUENCE DESCRIPTION:

GATCTTTACT GTTCAGAATT TAGGAAAGTT CTCTGGCTGT TGCATCCAAG TAAAATTAAA 60
ATAAAATTGG TTGCANNTTT AAA 83

SEQ ID NO:7695

LENGTH:263

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08945

SEQUENCE DESCRIPTION:

GATCCCTTCC TCTGTCTCTC TAACTCCCCA GCCATGAATT TTGGCCCCAG GGAGAGGAAT 60
AGGCAGTATA GGAGGGATGT CAGGGAATC ACATCTGTGG TTGAATCTCA GAAACAATGG 120
AAAGGCAGTT GTCTTTGGAT ATGGTGAAAT TGTGGTAGAG CACCCATGGT GGGGGTCTGG 180
CAGGAGCTCT GCGGCTTCGG TAGCAGCAGT ATGAGGAGAG CTGGGCCACA TGCTTATGGG 240
TTAGGAGAAG GTAATTTCCA GTN 263

SEQ ID NO:7696

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08946

SEQUENCE DESCRIPTION:

GATCATGGCT GAAAAAGCAG CAAATGCAGC AGGAAAAAAG TTCCGAAAGA AGAAGAAATT 60
TCGCAATTAA GATTTACCAA GCAAACTGCA ACATTTTACA TTGCTCCTTT ATTTACTTAT 120
TAAAGACGTT TGGAAACTA AA 142

SEQ ID NO:7697
 LENGTH:200
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08947
 SEQUENCE DESCRIPTION:
 GATCAAGATT GAGAAGACTA GATACATAAC AACCAACTGC AATGTTTGGT CCTTCATTGA 60
 ATGGTTGAAC AAACCAGCTG TGAAAGACAT TTTGGGACAT ACAGACATGG ACTGAGAATT 120
 AGACATAAGA AAATTATTTT GTTAAGTGT ATCATGGTTA AAAAAACGGT CATATAATNT 180
 GATTATGTAG AGAAGTTAAA 200

SEQ ID NO:7698
 LENGTH:351
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08948
 SEQUENCE DESCRIPTION:
 GATCTGCCTG CCTCAGCCTC CCAAAGTGCT GGGNTTACAC GCGTGANCAC CACACCCAGC 60
 CTCCATCTTT AAACCTTTAA ATGTGAAATT TCTATCATGT ACCGTTAGCC TAACAAGATT 120
 TTNTTTCCTA TTTCTGACTG GTGCCTTTCC CCTTTTTAGG AGCAACGAAA GCTACTCTCT 180
 TAGTTATGTT CTTGTGATGT GACAAAATGT CAAGAAGATA GGAGAAGAGA ATATTTTATT 240
 TCGTTGATGC TTTTGTCCC AAGTGTGACC CTAAACTTAA GCTTTGTAGG AGTTGACATT 300
 CTTTCATGTC CCTTCCCTTT ACTCATGCCG AAACATATCAA CTGGGNCATG N 351

SEQ ID NO:7699
 LENGTH:350
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08949
 SEQUENCE DESCRIPTION:
 GATCTGTTTC TGGGGCCTCT GGCGGTGGCG GCCTGGGGCG GCGCGACGGC TGGTGCGCAG 60
 GTACANTGAT GCTGAAGTAC TATGAGCCTT CGGAACCTGT GGAGAGACTA CAANGTTTGT 120
 GNNNNTATGG TCCCTTTAGT TGGGCTCATA CATTTGGGGT GGTACAGAAT CAAAAGCAGC 180
 CCTGTTTTCC AAATACCTAA AAACGACGAC ATTCCTGAGC AAGATAGTCT GGGACTTTCA 240
 AATCTTCAGA AGAGCCAAAT CCAGGGGAAG TAGCAGGCTT GCAATCTTCA GGTAAAGAAG 300
 CAGCTTTGAA TCTGAGCTTC ATATCGAAAG AAGAGATTGA AAAATACCNN 350

SEQ ID NO:7700
 LENGTH:351
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08950
 SEQUENCE DESCRIPTION:
 GATCCCGCCA GAAATGAATA GACACCGCAA GAAACAAAGC TCGAGTGAAA GCTTGTTACA 60
 TAATGATTGG ACTCACAATT ATCGCCTGCT TTGCTGTGAT AGTGTCAGCC AAAAGGGCTG 120

TAGAACGACA TGAATCCTTA ACAAGTTGGN NCTTGGCAAA GAAAGCTAAG NGGCGTGAAG 180
AAGCTGCATT GGCTGCACAG GCTAAAGCTA AATGNTATTC TAAGTGACAA AGTGTTCACC 240
TGAATACCAT CCCTGTCATC AGCAACAGTN GAAGATGGGA AAAATNGAAT ATTTACCAAA 300
ATNTCTGCCA TGGTTTTATT TTGGTAACCN GATGCACAAT GTCTTTTTTT N 351

SEQ ID NO:7701

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08951

SEQUENCE DESCRIPTION:

GATCATATGT GAAGATGTCA ATTAAGCTTG CATTAAGCCA CCTGCTTTGT AAGTGGATTG 60
ATTAATAAAT AACTTATATT TCAAA 85

SEQ ID NO:7702

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08952

SEQUENCE DESCRIPTION:

GATCCCAGGG GCTTATCTCT TCAAGTGTGG AGAGGGCAGG GTCCACGCCT CTGCTGTAGC 60
TTATGAAATN AACTAATTGA AAATTCAAA 89

SEQ ID NO:7703

LENGTH:375

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08953

SEQUENCE DESCRIPTION:

GATCCAGTGG CAATTGTAAA ACTAGCTATT TATGGCATGC TGCCAAAAAA CCTTCACAGA 60
AGAACATTTN ATGGAAAGGT TGCATCTTTT TCCAGATGAG TATATTCCNN CNGATATTCT 120
TAAGAATTTA GTAGAGGAGC TTCCTCAACC ACGAAAAATA CCTAAACGTC TAGATGAGTA 180
CACACANGAA GAANTAGACG CCTTCCCAAG ATTTGTGGAC TCCACCTGGA AGATTATCGG 240
CTATAAGAGA ATAAGATTTG CAGATAATTA ACAGTTGANG TGATTGAGAC TTTCTNCTTG 300
ATGAGTTTCT CTAACCTNCA GGGTGGTGTG AACCAACTGC TACAGTTCAG CACCTGTTTT 360
TNTTGTGCCG NTTN 375

SEQ ID NO:7704

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08954

SEQUENCE DESCRIPTION:

GATCACATCC TACTTCCTCA ATGAAGGGTC CCAAGCCCGT CCCC GTTCTT CCCACCGATA 60
TTTCTNGAA CGCGGCCTGG AGTCAGCAAC CAGCCTCTAG CAGCTGCCTC TACGCGCTCT 120

ACCTGCTTCC CCAACCCAGA CATTAAAATT GTTTAAGGAG AACCACACGT AGGGGATGTA 180
 CTTTTGGGAC AGAAGCAAGG TGGGAGTGTG CTCTGCAGCC GNGTCCAGCT ACTTCCTTTT 240
 GGAACCTTTA AATAGAATGG GTGTTGGTTG ATTAATA 276

SEQ ID NO:7705

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08955

SEQUENCE DESCRIPTION:

GATCCACTGC CATTCTAATT GCTTTAACAA GTCATTACCA CACTACTGTT ACATCTTAAT 60
 TATGCATACA GACAGGTAGA CTTGTTTTAC ATATGTGAAC TAACTAGTTG TCAAAGCAAA 120
 TGCAGATTGT ATTCTGCAAG TAAAGTCTTT TTCTCTCTGA AATTTCTAGG GATGTTCTTT 180
 AAGTGAATTT CATATTAAAA CTGAAGATTT TNGTTACAAA 220

SEQ ID NO:7706

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08956

SEQUENCE DESCRIPTION:

GATCCAAAGT AACTNAAACA GGAGCCCACA AGACGGTCTG CCAGATTGTN AGCGAAACCT 60
 GCTCCACCAA AACCTGAACC CAAACCAAGA AAAACATCTG CTAAGAAAGA ACCTGGAGCA 120
 AAGATTAGCA GAGGTGCTAA AGGGAAGAAG GAGGAAAAGC AGGAAGCTGG AAAGGAAGGT 180
 ACTGCACCAT CTGNAAATGG TGAAACTAAA GCTGAAGAGG CACAGAAAAC TTGNTTCTNG 240
 TNGATTAACG AN 252

SEQ ID NO:7707

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08957

SEQUENCE DESCRIPTION:

GATCTCCTGA CCTCAGGTGA TTCACCCACC TCAGCTTCCC AAAGTGCCGG GNTTACAAGC 60
 TTGAGCTACC GCGCCAGCC AACACATCAC TTTTATCTTG CAGCTCCCGA GATTCTCTTT 120
 TCTGTGACTN TAAAATTGT GCTNACATAT GTGTTTGATA TAAATN 166

SEQ ID NO:7708

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08958

SEQUENCE DESCRIPTION:

GATCAAAATA TTCTGGAAAA AAATAATAAA AAATAATTTG TATACATTGA AA 52

SEQ ID NO:7709

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08959

SEQUENCE DESCRIPTION:

GATCATACTN GTGATTATAA AAGNTCCTAG GAGGCTAGAA GAGCCAACCA ACAGAGAAGG 60
GAAAGCAGTC TGTTCTGAAC ATAGGGACAT AAGTTCATTC ATGCCAAGTA TCTTTCCAGC 120
ATGTTTCTCC CATTTAGAAT ATCTAGCATN TAAGGCCTTT CAATATTAAT ATAAGCCCAA 180
TATCAGCTCT TTCTCTNTGT ATTTTCATCTC TTTCTACTCT CCNATTTGTA TTTGGTGTTT 240
CTNTTGAAAG TGTCGTATCT GGGAGATGAC CTGCCTTATC CTGTNCTATA ACAGTTTNTG 300
NTTGCTGCTG TGTCTTTN 318

SEQ ID NO:7710

LENGTH:243

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08960

SEQUENCE DESCRIPTION:

GATCCAAGAA ATTACTGAAA TGGACAAGAA ATGTCATTAG TAAAAGCCA TGTTATCTTG 60
AGCACACATA CAGTTAATTT GATAAAGAAG AGTATGCCTC TCAGCATTGT GAGATATATT 120
TCAGACTAAT TTGATGTTCT TTAATGTTCC CTTATTTTGG AAACACGTTT TAAATGTGAA 180
ATTAATGTCC TTCACAAAAT GTCTTTTGAA AGCACTGTTA CAGTTGTATA AAGATGATGT 240
AAA 243

SEQ ID NO:7711

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08961

SEQUENCE DESCRIPTION:

GATCTTGGCT TCTGAGGGCT CATTTGTAGA GTGGTGAGAA TAATATCTAA CTTGCTAATC 60
TTTCAGAGAC ATTCTGAGAG ACATATGCAA AAGAACTTG TAAATAAAAA GCACTGTACA 120
AA 122

SEQ ID NO:7712

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08962

SEQUENCE DESCRIPTION:

GATCCTTTAT TAAGCTTCTG ATTCATAAAA AAACCTATAA GAGACATTTG GGGGGATATT 60
TGGGGAAATA GGAAGATGGA ATGGGTAGTA GATAATGTGG TATATTTNAT TTNCTAGAA 120
GTGATAATTG AGTTACGTAG GATAATGTTC TAATTCCTAG GAGATGCATG CAGAAGTTTT 180
TTTTTTAAGT TTTGAAAAGN CATGATGTTG NCAGCATATT TNCAAATAAN TATGTCCAAA 240

SEQ ID NO:7713
 LENGTH:110
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08963
 SEQUENCE DESCRIPTION:
 GATCTGTGTC CAAAAGTGAA CTTNAGTCAG GAATGAATCA ATTTCAGCAT AAACAAGCAC 60
 AAAANTTTAG TCTGCTGGCT GACTGGAAGC AAAAAAGTCA AGATGGNNNN 110

SEQ ID NO:7714
 LENGTH:111
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08964
 SEQUENCE DESCRIPTION:
 GATCTCAAAA CAATTGTTGC AGCAGGCTCC TGGCAGTCTC AAGCAGTTCA TCTTCTTGGT 60
 GTACTGGTTT CCTATTGTGA TTTTATCATG GAAAATCAAT TGGCTNNNNN N 111

SEQ ID NO:7715
 LENGTH:309
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08965
 SEQUENCE DESCRIPTION:
 GATCCTATAG GCAGAGAGTT TTCCTTTCTG ACTTTTTCCC TTTGCTTTCG TGTGACCACA 60
 TGTTTTCTGT ACCAGTCACT GGGGAAAGAA GTGAGTTTAT CTCGTTTGTT TAAAAAGTTT 120
 TGCTTGCTCTA TTTAGCATTCT CTTTTTGGGT CTCAAGATTT ATGGAACAAT AAATGTCATT 180
 TAATGCTGTG TGCTTATTTT GAATTCCTCA TCAGGTTTTA GAAGCGGGGT AAAAATACTT 240
 AGATGCTTAT CAGACTTGAA ATTATACTGA GTGGCATTGA ACGTGAGTTT GTCCCAGTGA 300
 ACCAGGCTN 309

SEQ ID NO:7716
 LENGTH:204
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08966
 SEQUENCE DESCRIPTION:
 GATCCATGAA GCCAGAGCCT GGCTCTGGGT GACAGCAGGA AACGGCTGGG GAAAAGNACA 60
 GCAGGGCGTC CAGCTGAGCC TGCCATTCCA GCCTGTTCGG GGGAAACAGC TCCAATCCT 120
 AGACTGTGCT GCTCCGGGAG GGCTGCTGGT GGATATTTGG GCTGTTTTCA CCATATAGCT 180
 GTCATGAAAA ATGCTTCCGT GAAA 204

SEQ ID NO:7717
 LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08967

SEQUENCE DESCRIPTION:

GATCTCAGGA ATACAGTCCC ATGCAAAGAT TCTCTGGTTT TATGGCTTTT TTCCCTTTCT 60
TTACACCATC CTCTCCCATA AGCACCCATG TTTTGAATA TGAATGTATT TGAAAAATAA 120
A 121

SEQ ID NO:7718

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08968

SEQUENCE DESCRIPTION:

GATCACCTGA GGTCTGGGACT AAAAATACAA AAATNAGCTG GGCATGGTAG CCGGTNCCTG 60
TAATCCCAGC TATTTNGGAA ACTNAGAACA AGAGACTTGC TTGACCCTGG GAGGTGAAGG 120
TTGCAGAGAG CCGAGGTAGT GCCACTCCAC TCCAGCCTGG NCGACAGAGT GAAACTCCGT 180
CTCAAA 186

SEQ ID NO:7719

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08969

SEQUENCE DESCRIPTION:

GATCAGCTCT CTGTTTTGGA AAATGGAGTA GATATAGTTC TAGGTACTCC GGGAAGACTA 60
GATGACTTGG TGTCAACTGG AAAGCTGAAC TTATCTCAAG TTAGATTCCT GGTCCTGGAT 120
GAAGCTGATG GGCTTCTTTC TCAAGGTTAT TCTGATTTTA TAAATAGGAT GCACAATCAG 180
ATTCTCAGG TTACCTCTGA TGGAAAAAGA CTTCAGGTGA TTGTTTGCTC TGCCACTTTG 240
CATTCTNTCG ATGTAAAGAA ACTNTCCGAG AAGATAATGC ATTTCCCTAC ATGGGTTGAC 300
TTAAAAGGAG AAGGCTCTGT TTCCAGATTN CTGTACACCA TGTTGTTNAA N 351

SEQ ID NO:7720

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08970

SEQUENCE DESCRIPTION:

GATCCCAAAG AAGTAACGGG AAAAAGGAAT GTAAGGCATC TCGATAATNT TTTCATATTG 60
ATTACATGTT GAAATANTAT TTTGTATNTA TTGAGTTAAG AAAAATATGT CATTAAAATT 120
AATNTCACCT GTTTCTTTTA AA 142

SEQ ID NO:7721

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08971

SEQUENCE DESCRIPTION:

GATCTTGTGA ATCAAATTCA CAAACATCAG CTTGTTACAA ATCATTNTAT TTATACCCTT 60
TAAAGAGTGT GGATTTAAGA TTCTTGAAAG GATGTAGNCT ATATANTTTC TCATTCCNTA 120
TGGTGTAACN 130

SEQ ID NO:7722

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08972

SEQUENCE DESCRIPTION:

GATCGTTAAT TAATATCTTT CCATNCGAAG AGNAAGCAGA TTTCTTCTGA GATTTCTGAA 60
CAGTTCCTGG GTGTTTCCGG TTCTGCTTCA GTGTACTATC ACTTTGCCTT GCCTCAGTCT 120
CTCCTTCCTC CGGGGCCACA GAAGGAGAAA GCCCAAAGCA TACCCATCCT GCCCTTTAAA 180

SEQ ID NO:7723

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08973

SEQUENCE DESCRIPTION:

GATCACTGTC CCGNTTCAAA TTATTCTTCA GTCCATTTC CCGGCCTATT TCAGCTGTTT 60
CTTTTCACCT AACTGTTNAG TCATTNCGGT TTTCAAGCAG TGCTTNATCT CATGTCCTTG 120
AATATAGTTG TGTACTTTAT TTTNAGGTA ATAATTAGAA CAGTTCCTT CAGAGGCTGC 180
ATTTGCCTTC TTCTGCCACC TAAATATTAC TTCCCTTCAA ATCNGCCTTT GAATCATCNN 240
NTTTAAAAAA AANTTANCAT GNTTTN 266

SEQ ID NO:7724

LENGTH:33

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08974

SEQUENCE DESCRIPTION:

GATCAAAGGT ACCATGACCA AATAAGAAAC AAA 33

SEQ ID NO:7725

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08975

SEQUENCE DESCRIPTION:

GATCTTCTTT TTTNTTCTGG AGCCAGACTT NCTGGGCTTN NATTGCTGCT ATGCTACTTA 60
CTTGAAAATC TTGGACAAAGT TACCTAATTT CTTGTTCTT AAGTTACTTC TGTTGTAAAA 120

TGATGTGGCC AATAATAGTG CCTATCTCAT AACATGGTTA TTAGAATTAA ACAAGTTAAT 180
ACTTTTAAAA TGCTTAGAAC AATTGTGGGT ACATACTAN 219

SEQ ID NO:7726

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08976

SEQUENCE DESCRIPTION:

GATCTGTCTG GNAACAGTTT ATGGAAATAT AGATATTCAT GCATCANATA AAAGTGCTGT 60
GACCATAGAT AAAGTGCAGG GAAGTTCTGT NACTGTATCT ACCGAAGATG GTTTGCTGAA 120
AGCCAAGTAT CTTTATACAG AATCATCATT TCTGTCTTCT GCTGCTGGGG ATATTACATT 180
AGGAAGTGTT CATGGNAATA TAACATTACA AAGCAAGANG GGTAGCATCA CAGTNGATTG 240
GTCTTCTGGA TGTCTAAAAG CCTCAACTAA TCAGN 275

SEQ ID NO:7727

LENGTH:37

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08977

SEQUENCE DESCRIPTION:

GATCCCAGGT TCTCATGAAC CAAATAAGTA ACTTAAA 37

SEQ ID NO:7728

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08978

SEQUENCE DESCRIPTION:

GATCTGCCCC CCTNGGCCTC CCAGAGTGCT GGGATTACAG GCATGAGCCA CTGCGCCCGG 60
NCTGTACTAA GTCTTTTTTT TTAAATTTC CTCNAAA 97

SEQ ID NO:7729

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08979

SEQUENCE DESCRIPTION:

GATCTATGAA CTTCTGCCCC ACATAACTTT TAAAGCAGTA TTTTATAAAC CCCATGAAGA 60
GCTTGCTTTT TTGTCTTTGT AATTCCTTAG GGTCTGTGAT ATATGCCAGG AAATCTGATT 120
GAAACTAATA TGCTTTTTAT TCTCCCATTA TTCCCTAAAT NGTTATATCA CAGGCACTTG 180
CCTACATTGG GAAAGTAAGG ACAAATAATA CCCATTTAAA GTAAGTNGCC TATTATTNNG 240
ACTGTCTTTC GTAAGCACTT GCTGAACNGC TGAAGTAACT CAGN 284

SEQ ID NO:7730

LENGTH:374

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08980

SEQUENCE DESCRIPTION:

GATCTCGCAA TGGGGAAGGC CCTGGTCGAC CAGAGGGAGC TGTACCTGGG CCTGCTCTAC 60
CCCACGGAGG ACTACAAGGT ATACGGCTAC GTCACCAACT CCAAGGTGAA GTTTGTCATG 120
GTGGTAGATT CCTCCAACAC AGCCCTTCGA GACAACGAAA TTCGCAGCAT NTTCCGGAAG 180
CTACACAACCT CCTACACAGA CGTGATGTGC AACCCCTTCT ACAACCCGGG GGACCGTATC 240
CAGTCCAGGG CCTTTGATAA CATGGTGACG TCGATGATTG ATACAGGTTG TGCTGAGTGA 300
GCTGTGCTGC CAGCCATCGN AGAGGAGCCC NTNGCACGAC TTGTGGTGGG GTCCGTCGGT 360
CTTGTTTCTN TTTN 374

SEQ ID NO:7731

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08981

SEQUENCE DESCRIPTION:

GATCCGGTTG GACTCTGACA TCGGATGCCC TCAAACATAC AGAACTTCCA AACTCAAGTC 60
CAGCCATAAG CTATTTTGCC AACATGTCAG AGTAATCTGT ATTTTGTAT GTGATTTCTA 120
CTTTTATAGA CTTGTTTTAA AACAATAAAA CACATTTTAA TAAA 164

SEQ ID NO:7732

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08982

SEQUENCE DESCRIPTION:

GATCTTTTCAT GAAAATTAAT TGTGCCCATG TCCAAGTTTG AATTAGAGAT ACACAGCACA 60
CAATCATTTT TGTACCCT TTTGGAATAT CTAGCATTAG CCTTGATAGT TTTGTGTGGT 120
GTGTTTTGAG TATATCTGAN CTGTTAGTTA TATTGGTTA ATTTATTAAA NGATGTGTGT 180
TAANCCTTAA TATTTATGCA GTGTTTAAGT ATTTGGAATA TATTNGAAAT AAATTATCCA 240
GTGTTTTAGA TAAATGGTTA TTAAATTGCN NAANGTGATT CTCTAAA 287

SEQ ID NO:7733

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08983

SEQUENCE DESCRIPTION:

GATCTGTGCC GTTCAATAGG CATCGTCTCT CAGCCTGAGG GAGGCTGGAT TCTGGGTTCC 60
TGTAGTCACA GGGAGGAAAA GCTTTCCTAA AAATGGACAT GTATGTGCGT GTNAGTGTGT 120
GTGTAGATTT ATAGTTTTTG GTAGTGGCAG GAATAAAAAA AATCCATCCT AAA 173

SEQ ID NO:7734

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08984

SEQUENCE DESCRIPTION:

GATCTCTATT TTGTGCCAG ACTCTGAGCT GCTTTATGAA CACCTCAATT AAATNACTTC 60
ATTGGAGTGA TTTGAGTAAT CTATCTATAG TGTAATATTT TCTATGAATA ATTTTCTGTA 120
ACCTTATTTT ATAAGTTAAT ATCTAAAAAG TGTTTATTTT CAAATTGCCA AATAAAAGGT 180
TTTATATTAG TCATTAAA 198

SEQ ID NO:7735

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08985

SEQUENCE DESCRIPTION:

GATCTAGAGA CTCATTCAAT AGCAATGTGA CCTTTTAAAT ACTTACATTA AGTAAACTG 60
CCAGTAGATT AAATCATATA TATATATATA TATN 94

SEQ ID NO:7736

LENGTH:363

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08986

SEQUENCE DESCRIPTION:

GATCACCTGN ACTCCAGCTC AGATTGCCTC TCCTGGACAT GGCAATGAAT GAGTTTTTAA 60
AAAACAGTGT GGATGATGAT ATGCTNTTNT GAGCAAGCAA AAGCAGAAAC GTGAAGCCGT 120
GATACAAATT GGTGAACAAA AAATGCCCAA GGCTTCTCAT GTCTTTATTC TGAAGAGCTT 180
TAATATATAC TCTATGTAGT TTNNTAAGCA CTGTACGTAG AAGGCCTTAG GTGTTGCATG 240
TCTATGCTTG TGGAACTTTT CCAAATGTGT GTGTCTGCAT GTNTGTTTGT ACATAGAAGT 300
CATAGATGCA GANGTGGTTC TNCTGGTACG ATTTGATTCC TGTGGGATG TTTTAACTAA 360
NAN 363

SEQ ID NO:7737

LENGTH:262

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08987

SEQUENCE DESCRIPTION:

GATCTTCTTT GATGATGAGA GGC GGAATAT TG TAGACGTC AGCAA ACTGG GTGTTACCTG 60
CATTCACATC CAGAATGGAA TGAATCTTCA AACTCTAAGT CAAGGGTTAG AGACATTTGC 120
AAAGGCCCAA ACTGGGCCTT TAAGGTCCAG CCTTGAGGAG AGCCCATTTN AGGCCTAAAC 180
TGAAAGGAAA TCAAGAAGGC ATTTTCAGGT GCATTTGTAA TTTATTAAAG TTCATCTGTG 240
TGTGACAGAA AAAAAAAGTA AA 262

SEQ ID NO:7738

LENGTH:361

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08988

SEQUENCE DESCRIPTION:

GATCTGTGCC ACATGGAGGT TTTGGGATGG GATTTNAACG CTACCTGCAG TGCATCTTGG 60
GTGTTGACAA TATCANAGAT GTTATCCCTT TCCCAAGGTT TCCTCATTCA TGCCTTTNAT 120
AGCTGGAAGA TTGGTTAAGG CAAAGCACCC CCCATGGCAG AGACACTGCA CATGATTGTN 180
CATACAGCAG AATGCATGTT TGGATTNTAG AAATGCAGAT TTCAATATGT AATTGTTGTG 240
CCATAAGATA TCATAGNAAA NNTATAAGTG GTTGTNCTTT TCTTAGAAAG TTGAGGGTAT 300
TTCACGTAAG GATGAGCTCC CGCAAGNNGA GGTACTTNTT AGCANGGGGA CTCTCAATCG 360
N 361

SEQ ID NO:7739

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08989

SEQUENCE DESCRIPTION:

GATCTTGATG TGGGTGATAG TTTTACTTAT GTACATCGAT ATACATCTAT TAAAAACAT 60
GTACATTTAA ATTGTTGCAT TTTATGTATT TAAATTTAT TGAGTANTCC TTCTGTATGT 120
ATTATTAAAG AGAATATAGC AAA 143

SEQ ID NO:7740

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08990

SEQUENCE DESCRIPTION:

GATCATAGAG TTTGGCTGGG GAGGGGGGCA GTTTTAGAGG CTTCCACTTG GTGTCCTCA 60
GAATGATATC TCTTACTCCG GGGGCCAAGG TAGGGGTTAG CTTTGTTCCT CTTTGTAGTT 120
TAGATTGTAT CTCTGCCTT GTTCAAGTTC ACAAATCTTT TTGTGTATAC ACATATGTAC 180
ATGAAAATNA TGTCATGCT TTTAATTATT TTACCCTTCA TTATTTCAAT TTNATAGTT 240
CTCATAGCTA TGTCTTTCAG TTCACTAATC TTTTTTCCAC AGTGTTTAAT CTGTCATTAA 300
ATCCCATCCA AAGTATGTTT TCTCTCAGAA GAN 333

SEQ ID NO:7741

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08991

SEQUENCE DESCRIPTION:

GATCCTTGTA CACTGTTTAT ATGTGCAATA AAATGCATGG CCAGCTGACA GTATCGTCAG 60

TGGACAGAAT GTATATAGTG CAAATATCCT TCCTTTTATT ATTTAACAGC CATTAAAATC 120
TTGGATTTGT ACAAA 135

SEQ ID NO:7742

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08992

SEQUENCE DESCRIPTION:

GATCCCAGTT CACAATTATT CACCGGGTAT TTAGTTATTC ANAGGCTGCT CTGCTGAGAA 60
GNTGAACAAA TTTCTTGTCC AAAACAATGT ATTTCAAACG TGCCGCTCGG GCCTTTCCCG 120
TATTGCTCAC TGGTGCTGGG AAGACAACAC TTCTGAACTA TATTTTGACA GAGCAACATA 180
GTAAAAGAGT AGCGNNNNCT TTAAATGAAT TTGGGGAAGG AAGTGCGCTG GAGAAATCCT 240
TAGCTGTCAG CCAAGGTGGA GAGCTCTATG AAGAGTGGCT GGAACCTAGA AACGGTTGCC 300
TCTGCTGTTC AGTGAAGTGA GGAATGTGTT TTN 333

SEQ ID NO:7743

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08993

SEQUENCE DESCRIPTION:

GATCCCAACT GTATAACATT CTGAAAAAGG CACAACATG GAGACAATAA AAAGAACAGA 60
GTTTTGGATG AAGGGAGGGA TGAACAGGCA GAATACAAAC AAATTTTAGG GCAGTGAAAC 120
TATTATTATG ATACTTTATG GATATAGAAT ATTATGCATT TTTCAAAACA CATAGAATAT 180
ACAACATGAA GAATGAATGC TAATGTAAAC TGGATTTTN 219

SEQ ID NO:7744

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08994

SEQUENCE DESCRIPTION:

GATCTTGGGC CACACATGAA AATACACTAA CACTAATGAC AGCTGATGAG ATGCTTAAA 59

SEQ ID NO:7745

LENGTH:353

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08995

SEQUENCE DESCRIPTION:

GATCAGAGTG ATGCTGGAAC TCAGTGTGCA TAAATTTCA GTCAGTGAAT ATCACTGAAC 60
GTCAATACT ACTTGGTATG TGAATTTGGT TTGTGTTAAG AAAGCTGTA TATAATATTT 120
TTNGCCATAG TAAGTGAGAA ATTGTCCTTA ATCATGCCTG TTTGATGGTA CTAGGAAAGA 180
AAGGGGTAGA GATTAATTCT TGCACAGTAT AAGCAACAGT GCAACAAACT ATGCCATTTN 240

CCTTTTNCCT CTTACTTGAA GGCAGAATCG CAAAACGTTT GANATGGCTT TCCTAAACTA 300
CTCTACTCTG GTGNGAGCTC ATTTACCACA NGAAGCCTTA TAACACCGTT TNN 353

SEQ ID NO:7746

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08996

SEQUENCE DESCRIPTION:

GATCAGGTGA TTGCCTTTCT CAGCTGTCAG TTCTCTAATT TCAGGCTTGG TAGCTTGTAG 60
GAACTGAAAT TGCAATTAAA ACCTTTATAA ACTCAAATA AATCATGAAT TACAGAAAAA 120
GTCCATTCTT CCAAAACTTG ATGTTACCAC ACTTACAAGT TAAAAATATG AAGTCGACTG 180
TTTAAAGGAT TCTGCATATA TTCTAGTGTG CACATTGAGA AACATTTTTC TTGGAAAAAG 240
TACCCAACAT TTTTATAAC TGCACATATT AATTTATTGC CAGAATAAAT TGCATTGCAT 300
GCTAAATTAA NGTCAGATAN TTCNAAA 327

SEQ ID NO:7747

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08997

SEQUENCE DESCRIPTION:

GATCATGTAA ACTTGCTGTT TTNGTTTTTN CCTGCCGGGT GTTGTATGTG TGGTGAAGTTG 60
CGGATTTATG TTTCAGTGTG CTGGAACTT TCCATTTTAT TCAAGAAATC TGTTTCATGTT 120
AAAAGCCTTG ATTAAAGAGG AAGTTTTTAT AAA 153

SEQ ID NO:7748

LENGTH:41

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08998

SEQUENCE DESCRIPTION:

GATCTTAATT TTGTTTTTGG TTTAAAATAG TGTTTCCTTT N 41

SEQ ID NO:7749

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08999

SEQUENCE DESCRIPTION:

GATCTATCTA AATGCCGATT TGAGTTCGCG AACTATGTA CTGCGTTTTT AATTCTTGTA 60
TTNANACTAT TTAATCCTTT CTACTGTGCG CTAAATATAA TTGTTTTAGT CTTATGGCAT 120
GATGATAGCA TATGTGTTCA GGTTTATAGC TGTTGTGTTT AAAANTTGAA AAAAGTGGA 180
ANCATCTTTG TNCATTTAAG TCTGTATTAT AATAAGCAAA ANGNTTGTNT GTATGTNTGT 240
TTNATATAAC ATGACAGGCA CTAGGACGTC TGCCTTTTTN NGGCAGTNCC GTTAAGGGN 299

SEQ ID NO:7750

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09000

SEQUENCE DESCRIPTION:

GATCAATTAG ACATTTTGAA AATAATTTAA AGTGTTTTCC TTAATGTTCT CTGAAAACAA 60
GTTTCTTTTG TAGTTTAAAC CAAAAAAGTG CCCTTTTGT CACTGGATTG TCCTAGCATT 120
CATGATTTTT TTTTCATACA ATGAATTAAT ATTGCTAAAA TCATGGAAA 169

SEQ ID NO:7751

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09001

SEQUENCE DESCRIPTION:

GATCATTTAA TGAATCCTCA AGGACTAATG AAATAAATGC TAGACTGCTG AAA 53

SEQ ID NO:7752

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09002

SEQUENCE DESCRIPTION:

GATCCTGAAA ATAAACTAA CACTCCAGTA TTTTGTCTT GTTTTTCGCA ATTGAGCTAT 60
CTGAAACTG TTATTCCTAA GTAATGTTCA AAAATGATAA GTAATCTGGA TACCTTTTTC 120
TTATACTTTC TCCTAGGAAA ACTTTAAAC TTAAAAAGG CAAACCTACC AATAGGAATA 180
ACANATTAAT TGTCAAGAGA GTATATCCAA TATTAGGATA TAANTGTATG TGTCTCAAGT 240
TTAACTCTAC AN 252

SEQ ID NO:7753

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09003

SEQUENCE DESCRIPTION:

GATCTACAAA AAATTCCTGG AGCCATATAT ATACCCTCTG GTNTCCCCAT TCGCTAGTCG 60
TATATNGCCT NAGAAAGCAA TACAAGAATC CAATAATACA AACAAAGGCA NAGTAACTT 120
TAAGGGNGCA GACATGAATG GCTTACCAAC AAAAGGACCA NCAGAAATCT GTGATAAAAA 180
GAAAGACTAA AGAAATTTTC CTAAAGGACC CCATCATTTA AAAANTGGNC CNGGNNN 237

SEQ ID NO:7754

LENGTH:264

TYPE:nucleic acid

02184

TOPOLOGY:linear

CLONE:HUMGS09004

SEQUENCE DESCRIPTION:

GATCTTCCCA AACCCAGAGA AAGACATCAA TTTCCAAGAA CAAGAAGGTT ATCAAACACC 60
AGGCAGATTT AACCCAGAGG ATACTACCTC AAGGCATTTA ATAATCAAAC NNCCAAAAGT 120
CAAGAATAAG GAAATAATCC TAAAAGCAGC AAGAGAAAAG AAACAANTAA TATACANTGG 180
AGTTCCACTA TATCTGGCAG CAGACTCTTC ATTGGAAACC TTATAGGCCA GGNGNGAGTG 240
GCATGACACA TTTAANGTAC TGGN 264

SEQ ID NO:7755

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09005

SEQUENCE DESCRIPTION:

GATCCAGAGC TGTTGCCTGT GACAGCGGTT TCTNTGGATG TCAAAGGCAG CTGCCTGGTT 60
GCCCAGCTTG CTTCTCGACT GGTGGCCCCT ATGGGTGGGT GTGCGATGGA AATNTGTTCC 120
TGCCGGAGTC TGAGGCACCA GGGTGTGCTC AAAGGCTGGC CCTGGTGGTG GACTGGCACC 180
TGTGCAGAGT GCCGTGTGCT TGTGGTGC GC CATCTGAAGC AAGAGTCCAG CGTTCTGCCG 240
TGTCTGTCCC CCACCATGCC CCCTACAGGC GGTACTGATG GCGCTN 286

SEQ ID NO:7756

LENGTH:382

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09006

SEQUENCE DESCRIPTION:

GATCCTTTTT CCTTCAGCAG CATTTCTTAC TGGCTGTGGC TGGAATCTGC CTTTAATCAC 60
AGCTGTCACC ATTCTCACGT GATTCTTGTT AGACTCTTTT TGGTTATAAT TACTATTTAA 120
TATTTAGACT ATTTTACTGA GCAGACTTTA TAAATGAGAT ATCTACAAGG CACTTAAAGT 180
GTTACAGATG TTTTACCTTA AGANTTATTT AAGTNGTGTT GGGTTAAGAC AGTTTTCAGT 240
GTACCGTAAA TGTTGTGTTT TCAGAAAAAG ACAAACGAT GGTGCTGACT GGTTTTCTGT 300
ATATNGCACA ACAGTCCTCA AATACACTGG ATGTATGGAA CCTNTTCCTT NCATCCAGGC 360
AGCATTTTTN TTNCNCTCTN CN 382

SEQ ID NO:7757

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09007

SEQUENCE DESCRIPTION:

GATCATCTTT GAGTAGCACT GTTTTGGGGC CCTCGGTCTC TCTGAAGACC CTAGCAGAAC 60
TGATACCTAC CTGTATCTCT TGTTCTCTCC TATTTGAGTT TCACTTCCAG AGAACTTGTT 120
CTTCAGCAAG AATGTGTCAC TAGTAAGGAC ATCTCTAGCA TTTCTCTAGC CTTCTTTTC 180
TGCTGCTCAA AAATAATCGT TACAAAGCTT AGGTTTAAGC TGTATATGAA ATATTTATGC 240

GA CTCTCAAA CTTTAAAGGA GTTGCTCCTT TGTTCACAAA TTAAATGTGT TAGATAAA 298

SEQ ID NO:7758

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09008

SEQUENCE DESCRIPTION:

GATCATGGTC TTCAAAGATG TAAATACAAG AGAACCAAAG TTATTCCGGG CAGTTCAGA 60
TTCAGAACGT GTTATTCCTC CCAGAACGAC AACGCCATAT TTCCTTTGAG GCCTTCGCCC 120
ATCCTGCTGA CCCATTTTTN TGCCCTCTTC TTACCCCAAT TTTNTGTAT TACCCTCTAC 180
AATATACTTT TNATTGAGCA CTTTGCTGCT GAAATGCTGC CTCTTGCCTT TTTTTTTNA 240
AATTTTAAAT TATCTAAATT TATGGTTTGT GGTGGTGTCT ATNGCAAAGT TN 292

SEQ ID NO:7759

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09009

SEQUENCE DESCRIPTION:

GATCTGTTAA TGAAAAGTGC TGGAATACCT CAACCAAGAA AAGGCAGAAA AGGGAAGGGA 60
GCATATTGCT AAGAGAGCAA TGGAATATAT GTAAGCTGCT TTCATTAATT ACCCTACTTT 120
CATTCTCCC ACCCAAGCA AATCCCAACA TTTCTCTTCA GTGTGTTGAC TTCTATCCTG 180
TTAACTACTGT AATATCTTTA AATGATGTAC AGGCAGATGA AACCAGGTCA CTGGGGAGTC 240
TGCTTCATTT CCTCTGAGCT GTTATCTTGT GTATGGATAT GTGTAAATGT NGGTGACTCC 300
TTGATAN 307

SEQ ID NO:7760

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09010

SEQUENCE DESCRIPTION:

GATCTCTGAA CATGAAAACC AAGGTGGCTA TTTTCAGGTT GCTTTCAGCT CCAAGTAGAA 60
ATAACCAGAA TTGGCTTACA TTAAAGAAAC TGCATCTAGA AATAAGTCCT AAGATACTAT 120
TTCTATGGCT CAAAAATAAA AGGAACCCAG ATTTCTTTCC CTAAA 165

SEQ ID NO:7761

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09011

SEQUENCE DESCRIPTION:

GATCGATGAC GCAGGTCCTT CCAGTGAAAT GAATGGTCTC AAAAAATGGA GAGGATGTGC 60
TGGGGATTTA GAAGGCAGGG TAGCCAGAAA GAAGCACAAA TTACCCCCAC CATAAGCTTC 120

ACAGAATTGC TGACGCTAAC GGCCATGGGT GAGATTTTGT CAATAAGTGT CAGCCTGATG 180
ACAGATACCA CAGACAGTTG CAAAAATGTC CAAGTTTCTC CTGAAGTTTT CTGGCAGGGC 240
AGTGGGCTCC ATCCTTAGGA GTGAATCAGC TTTGGTGAGT ATCGTGATTG AACAGAGCCT 300
TAACACCAGG GCCCCCTTAA CTCGCACTC CTTN 334

SEQ ID NO:7762

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09012

SEQUENCE DESCRIPTION:

GATCGCTTTG ATTTTAAAGT TCATTGGAAC TACCAACTTG TTTCTAAAGA GCTATCTTAA 60
GACCAATATC TCTTTGTTTT TAAACAAAAG ATATTATTN GTGTATGAAT CTAAATCAAG 120
CCCATCTGTC ATTATGTTAC TGTCTTTTTT AATCATGTGG TTTGTATAT TAATAATTGT 180
NGACTTCTT AGATTCACCT CCATATGTGA ATGTAAGCNC TTAACATGT CTCTTTGTAA 240
TGTGTAN 247

SEQ ID NO:7763

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09013

SEQUENCE DESCRIPTION:

GATCCTTCCT GAGCGTTTCC TGGCAGTTTT AAAACGAAAA ATCAGTGTTA AGTTTGATGC 60
AGTTATTGGA TATAAAATGA AAGCGCAATA AGCACCTAGT TTTCTGAAAA CTGATTTACC 120
AGGTTTAGGT TGATGTCATC TAATAGTGCC AGAATTTTAA TGTTTGANCT TCTGTTTTTT 180
CTAATTATCC CCATTTCTTC AATATCATTT TTGAGGCTTT GGCAGTCTTC ATTTACTACC 240
ACTTGTCTT TAGCCAAAAG CTGATTACAT ATGATATAAA CAGAGAAATA CCTTTAGAGG 300
TGACTTTAAG GN 312

SEQ ID NO:7764

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09014

SEQUENCE DESCRIPTION:

GATCTGCCTG TCCGGGCTGG GACAGAGACT CCCCAAGNAC CCCATTCTGC CTCCTTCTGG 60
GGAAATAAAT AAGTGTCTGT TTCAGCAGCT AAA 93

SEQ ID NO:7765

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09015

SEQUENCE DESCRIPTION:

GATCTGGCTA AGCATCTTCC TCATGCTTTC AGTAAATTGG AAAACCCACG GAGGTAAAT 60
ATTACCTTTT TTTTTTTAA CTAAANCA TNCTGTTTAT TTTTNATTA CATTTNCCA 120
TATGNGNGGA ATN 133

SEQ ID NO:7766

LENGTH:300

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09016

SEQUENCE DESCRIPTION:

GATCGTNAAA ACCCCAAATG GACTTATTTT AAGTCACTTG CCAAATGGCC CAACTGCTCA 60
TTTTAAAATN AGCAGNGTTC GTCTTCGTAA AGAAATTAAG AGAAGAGGCA AGGACCCAC 120
AGANCACATA CCTGAANTAA TTCTGAATAA TTTTACANCA CGGCTGGGTC ATTCANTTGG 180
NCGTATGTTT GCATCTCTCT TTCCTCATAA TCCTCAATTN NTCGGNAGGC AGGTTGCCAC 240
ATTCCACAAT CAACGGGATT ACATATTCTT CAGATTTTAC AGATACATAT TCAGGTGTGN 300

SEQ ID NO:7767

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09017

SEQUENCE DESCRIPTION:

GATCAAAGTA GCCACAACAT TCTCTTAAGC CAAAGNCCAA TCCAGAACAA NGCCCTAACT 60
CTCTTCAATT CTATGAAGAC TAAAAAAGTA AGGAAGCTNC AGANN 105

SEQ ID NO:7768

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09018

SEQUENCE DESCRIPTION:

GATCGTCAAA CCATTCATCC TTTTAAAGGT TTATTTGAAG ATGCTGTAA AGTACAGAAT 60
TTTGTGTACA GGTAGATTTT TCCGTCCCTC ATTAATAGTG CCTTCTTAAT TAATACAGNC 120
TGGTGTAGC TATAACAAGG CNCCAGTAAG GCCAAAGAAT CCCAAGTTCT TTGTGGAAAA 180
ANAAAAAANN NCTTTTGGGG NCAGNTTTC CCTTCN 216

SEQ ID NO:7769

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09019

SEQUENCE DESCRIPTION:

GATCCTCCCG TGTGTGGTTG GAAACTTTT GTTTTTTGGG GTTTTTTTT TCTGAATAAA 60
AAAGATNCTA CTAAA 75

SEQ ID NO:7770

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09020

SEQUENCE DESCRIPTION:

GATCTGTGTC TTAATTGTTT AGTTAGAGTG AGAAGTTGAC CTATGATTCT TTTTAAATT 60
TTATATTTGG AACAAAGCTG CAAGTTATGG TAANGTACTG TACTGNGNGA NGTATTATGA 120
TATTTAATGC ATCTNTGGCT TAACACTTGT GAGAGTTACC AGCTTGAAAA TGATGGTGTT 180
GACTACCTCT TGANTCACAT CTATCAACCA CTGGCACCTA CCACCAAGCT GGCTTCAATT 240
AGTATGTGTT GCTTTTTGGT ATTAACANCT AACCCTACTA GAGACCAAAG TGAACCCTGA 300
TNTTTAATAT GTNTTTAATA ATGGTGGTTT TATCTAGTGG N 341

SEQ ID NO:7771

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09021

SEQUENCE DESCRIPTION:

GATCCAAGCC TGGAGTTTGC AGAAGATACT GTCCTAATAA GCAGGCATTT CTAAACCAAG 60
TATCTAAGCC TAAGCACAGC TTGTCCTGGG TGAAATGTCT GCCACAAAAG ATAGTTTCTC 120
CTAGCTCAGA CTTAACCATT TATAAAGGTT GGTAATAATAC TGGCAGTGAC AACAAATTGA 180
CTTTTTAATT TTTTATTG CATTATTCCA ATAAATGAAA ATCTGTCAGA GTTCTAAA 238

SEQ ID NO:7772

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09022

SEQUENCE DESCRIPTION:

GATCTGCCCC CACTGTCTCG TGAGGACAGC TGAGGCCAAG NAGTGAAAAA CCTATTACTA 60
CTAAGAGAAG GGGTGCAGAG TGTTTACCTG GTGCTCTCAA CAGGACTTAA CATCAACAGG 120
AAA 123

SEQ ID NO:7773

LENGTH:361

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09023

SEQUENCE DESCRIPTION:

GATCCAGGTA GAATTTTNA ACCAATCAAA TGAAAAAAAC AAACAAACAA AAAAGGAAAT 60
GTCATGTGAG GTTAAACCAG TTTGCATTCC CCTAATGTGG AAAAAGTAAG AGGACTACTC 120
AGCACTGTTT GANGATTGCN TCTTCTACAG CTTCTGAGAA TTGTNTTATT TCACTTGCCA 180
AGTGAAGGAC CCCCTCCCCA ACATGCCCCA GCCCACCCT AAGCATGGTC CCTTGTCAAC 240
AGGCAACCAG GAAACTGCTA CTTGTGGNCC TCACCAGAGA CCAGGAGGGT TTGGTTAGCT 300

CACAGGACTT CCCCCACCCC AGANGNTTAG CATCCCATAC TAGACTCNTA CTCAACTTNN 360
N 361

SEQ ID NO:7774

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09024

SEQUENCE DESCRIPTION:

GATCAAGCGA ACTAATTTTA GGTGAAATC CGAATAAAAG AACTTTACTG GAAA 54

SEQ ID NO:7775

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09025

SEQUENCE DESCRIPTION:

GATCTGTATA ATGTACATTC AATATAGAAA GCTTTATATA TTTAAAAGNG TATAGAACAT 60
TTNACAATTA CACTCATCTT TAACATAACA TCTTGACATC CATTTTNAAA TTTTTTGCA 120
CAAGCTCCTT TNCATTCAAT TTGGTAAAGC CAGTTATACA TACTANTGTG TACTGTGAGC 180
TTTCAGAN 188

SEQ ID NO:7776

LENGTH:221

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09026

SEQUENCE DESCRIPTION:

GATCACCTGN AGGTCAGGAA GTTTGAAAAC CAGCCTGGCC AACATGGCAA AACCCGTGTCT 60
CTACTAAAAC AAAAATNAGC CAGCATGATG GCAGGGCGCCT GTAGTCCNNN CTATTCAGGA 120
GGCTGAGGCA GGAGAATCGC TTGAACTGGG AGAGGGGCAG AGGTTGCAGT GAGCTGAGAC 180
TGCATTCCAG CCTGGGCGAC ACAGCAAGAG TCTGTCTCAA A 221

SEQ ID NO:7777

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09027

SEQUENCE DESCRIPTION:

GATCGTAGGA ATTGAAGGAG TGTCCCGCCT TGTGGCTGAN AACTGGACAG TGGCAGGGGC 60
TGGAGATGGG TGTNTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGCGCG CGCGNCAGTA 120
CAAGACCGAG ATTGAGGNAA ANCATGTCTT CTGGGTGTNA CCATGTTTCC TCTCAATAAA 180
GTNCCCCTGT GACACTCAAA 200

SEQ ID NO:7778

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09028

SEQUENCE DESCRIPTION:

GATCCTGGTC CCCTCCCTGC TGGACCTGCC ACCCAGAGCT TCCTGNCTAG TCCCACTGGG 60
CTGGCCCACC AGGCCTCTGA CCCAGGCTGC TCTNCGGCC CTTCCTCCTC CTNTTCCTGC 120
TCCAATTCT GTCCACCTGG GGACAGTCTG TGCCTGTAGC CTNATGACCC CAACCCAGCC 180
CCAGGCATGG CTAACCCCTG ACTGNTTGCC TCATATTTAA GCTGCTGNTN TGGCCAAGTG 240
NCTAATTTTA ACCCAGACCT NAATAAAGAC ACNTNTTTGT ACCAAA 286

SEQ ID NO:7779

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09029

SEQUENCE DESCRIPTION:

GATCTGATTT TTCATAAAAA ACATTTGTGA ACCTTCGGCA TAAATGGGTT AAGGTGCCAT 60
CCCTGAAACT GCAATGCAGA TATGTTTCAGN TAACTTTNAT TTNTTAATTA AAAATAAATC 120
TTTCAA 127

SEQ ID NO:7780

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09030

SEQUENCE DESCRIPTION:

GATCTGANTT TTCATAAAAA ACATAAANTG ACCTTCGGCA TAAATAGGTT AAGAAGCCAT 60
CCCANAACT NCAATGCAGA TATGTTTCAGN TAACTTTTAT TTTN 105

SEQ ID NO:7781

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09031

SEQUENCE DESCRIPTION:

GATCGGCGCC GTTACAGACG TGGCTACTAT GGAAGGCGCC GTGGCCCTCC CCGGAATNCT 60
GGTGAGATTG GAGAGATGAA GGATGGAGTC CCAGAGGGAG CACAANTNNN GGGACCGGTT 120
CATCGAAATC CAACTTACCG CCCAAGGTAC CGTAGCAGGG GACCTCCTCG CCCACGACCT 180
GCCCCAGCAG TTGGAGAGGC TGAAGATAAA GAAAATCAGC AAGCCACCAG TGGTCCAAAC 240
CAGCCGCTG TTCGCCGTGG ATACCGGCGT CCCTACAATT ACCGGCGTCG NCCGNTTCCT 300
CCTAACGGTN CTTACANGT N 321

SEQ ID NO:7782

LENGTH:66

02191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09032

SEQUENCE DESCRIPTION:

GATCCACTGA GTTAGTTTCA TTGGGGCGGG GGAAAGAACT GGAATTAAAC TTGTTTAATC 60
CTTAAA 66

SEQ ID NO:7783

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09033

SEQUENCE DESCRIPTION:

GATCCTCCCA GCTGTCGGCC GCGGACCCGG GCCGCGTGTG AGCGGCTTTT GCACCTCCTA 60
TCCCCAGGGT CCGCCGAGAG CCACGATTTT TTTACAGAAA ATNAGCAATA AAGAGATTTT 120
GTACTGTCAA A 131

SEQ ID NO:7784

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09034

SEQUENCE DESCRIPTION:

GATCACAAAT GCATTTTCA ATCTTTACAA TATGAAATNT ATTTATAACT TTAGTTCCAA 60
AATGGACTCT GTAATGCATT TGCCCATATT TTTAGTCGTA ATGGATGTGA TTATATTNA 120
TTGAATTAAA AATCTAACAG AAA 143

SEQ ID NO:7785

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09035

SEQUENCE DESCRIPTION:

GATCTTAACT TTAATAAGGC AAAACAAAAG CTTGAGCTG TTGCGTGTGT AAGTCTGTTG 60
TGTGGATGTN CGTGTNTGGT CCCCAGCCCC AGACTGGATT GGAAAAGTGC ATGGTGGGGG 120
CCTCGGGGCT GTCCCCACGC TGTCCCTTG CCACAAGTCT GTGGGGCAAG AGGCTGCAAT 180
ATTCCGTCCT GGGTGTCTGG GCTGCTAACC TGGCCTGCTC AGGCTTCCCA CCCTGTGCGG 240
GGCACANCCC CAGGAAGGGA CCCTGGACAC GGCTCCCACG TCCAGGNTTA AGGTGGATGC 300
ANTTTCNGNA ACCTCCANTC TTCTGTGTAG CANCTTTAAC CNAGN 345

SEQ ID NO:7786

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09036

SEQUENCE DESCRIPTION:

GATCAGCTCT CTGTGAAAAT GGACCAATCA TCAGGATGTG GGTGGGGCCA GATTAGGGAA 60
TAGAAGCAGG CTGTCTGAGC CAACAGTGTC ANCATGCTTG GGTCCCCTTN CATGCTGTGG 120
AAACTTTGTT CTTTCGCTCT TCACANTAAA TTTGCTGCT GCTCAAA 167

SEQ ID NO:7787

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09037

SEQUENCE DESCRIPTION:

GATCCTGGAC AAAGCTTGGC TGCCGGCTTC ATTTATTCCT GCTGATGGCT GAGAAGCATC 60
TGTTTTCCAT CCCACTTGCC TGTCCCAAGT TTTGTTCCAT TTTNAAAAA TTTGTTGTAA 120
ACTGCATGTT TTATAAATA AAAATAAAAT ATCGTTTGTA ATTTATCTCA AA 172

SEQ ID NO:7788

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09038

SEQUENCE DESCRIPTION:

GATCCGCCCA CCTTNGGCCT CCCAACACAA TTTATATTTT TGANGGTCCT TTTATGTGTA 60
TTGTGCCATA TGCTTCTNAC ATCAGCCCCA ATAAATGCTT TAGGCGTTTT ATATTATCTA 120
CCACTATTAC ATGCTCTCCA TCTCCAGACT ACCCATTTCT GCCATTGCCC TCATAGGGGC 180
CCATTCTGAT AATTCTGGAT ATGTAGAAAA ATAAATCCTG TTTATGTGTT TAAATAAATA 240
GATGTATACT ATAAA 255

SEQ ID NO:7789

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09039

SEQUENCE DESCRIPTION:

GATCCCTGAC AGCAAAAAGT TTCTTTTCTG AGGCTGCCAT ACTGCCACTG TCCAGGTGGA 60
GACTGAGCAA AGGAAGTCCT GGGCTGTGCC AGCTCCCAGA GCTTCGGAAG AAAGAGCAGC 120
AGCTCTCTCC CTGGGAACCA TCAGAGAATT CTGTTGATGT GTTCTGTGTC TGTCTGTCAC 180
CTGGTCACGA GCTTCTACCA CCTTTGCAAT TGTCACCTAT CTTTCACTCC CTGAATAAAG 240
TATCTATGCA TATAAA 256

SEQ ID NO:7790

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09040

SEQUENCE DESCRIPTION:

GATCTCCAC CTTTCGGGCC ATGTTGCCCC CGTGAGCCAA TCCCTCACCT TCTGAGTACA 60
GAGTGTGGAC TCTGGTGCCT CCAGAGGGGC TCAGGTCACA TAAACTTTG TATATCAACG 120
AAA 123

SEQ ID NO:7791

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09041

SEQUENCE DESCRIPTION:

GATCTAGCTT CAGAGGAAGT CTACACCCCA TTCCCTTCTG CTTACAATGT ACCCATGATA 60
TGTGTTTAGC NNNGNAATAC TGTAACAGGA CATCACATGG AAAAATCAAA GCAGCTGGCT 120
CACTGTATTT AACTGAAAAG AATGCCTACA GATTGGATAT TTAATAGGGA AAATTAAGGC 180
ACTTTAATAA CANACTTCAT TATGTGAACT TGTGGAATAT TNNCATACAN TATACCTTGT 240
ATATTANTGC CATAGTTTTT NGAAACACTA ATTTAAACAA CANATTTNAG GGGTGCTGGC 300
ATATCCCAGN 310

SEQ ID NO:7792

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09042

SEQUENCE DESCRIPTION:

GATCCGAAGG CTGCGGGCAG CGTNTNATCC CGTGGTTTAA TAAAGCTGCC GCGCGCTCAA 60
A 61

SEQ ID NO:7793

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09043

SEQUENCE DESCRIPTION:

GATCTTGGTC TTATTTGCAC AGTTTTTGCG TCTTGTTTGC TTCTTGCATC TGATTAACTA 60
GAATATTTCT NTTTCCCCCT TTTAATTTGT GATGTCACCTT GACCCCATTT ATGTGTAGGA 120
GCACTACNCC ATTGGTTTCC AATACTGCAC ACATAAGATA CATACTTGTG TGCAGAAAGT 180
ATCTTCCTCC AGGCTTGTA TACCCTTCAC ATGGAAGATT AATGAGGGAA ATCTTTATAT 240
TCTGTATAAA ANCAAANGCA AATTTATATA CTAATATCAT TTGTCTAAAA NTTTAAGTNG 300
TTTTCAAATN 310

SEQ ID NO:7794

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09044

SEQUENCE DESCRIPTION:

02194

GATCAGTAGA AAATGGACAT CAAGTTTGAA CAGATAAATC ATGGACAGCC TTATTGTGAT 60
 TGAAATGCTT GTAGGTTCTG TGCCAATTTT CCACCACTGT GTACTTTGTT GCTATTTAAA 120
 ACTGTATCAA CTCTAACGGA AGAATAAATT ATTTGTGATT TAAA 165

SEQ ID NO:7795

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09045

SEQUENCE DESCRIPTION:

GATCCGAGAG TNAAGGAAGT TCCCTGTNTT CCCCCTCCTT TTCCACCAGT NTCGCCTCTG 60
 GCCTTCTCTG GCCACTCCTG GGAGGGACTG CCTCACCACC CCTGTCCCGC TGCCAGAAAT 120
 ACACCCACAA TAAAAACCTG AAAACCAAA 149

SEQ ID NO:7796

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09046

SEQUENCE DESCRIPTION:

GATCCAAACT AACTGCCCAA GCACTACACA GCTGGACCCT GNTTCACNT AACCCGCANC 60
 TAGCAATCAA TACAGTTCA TTATCTGAGT TGCATAAA 98

SEQ ID NO:7797

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09047

SEQUENCE DESCRIPTION:

GATCTNTAGC CTCACCCTGN TCTCCTTCCT CCTACTGGCT GCTCAGGTGC TCCTGGTGGA 60
 GGGGAAAAAA AAAGTGAAGA ATGGACTTCA CAGCAAAGTG GTCTCAGNNC AAAAGGNCAC 120
 TCTGGGCAAC ACCCAGATTA AGCAGAAAAG CAGGCCCGGG ANCAANGGCA AGTTTGTAC 180
 CAAAGACCAA GCCAACTGCA GATGGGCTGC TACTGAGCAG GAGGAGGGCA TCTTTCTCAN 240
 GGGNNGGGTG CACTCAATTG GNNNN 265

SEQ ID NO:7798

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09048

SEQUENCE DESCRIPTION:

GATCTTACCC GTGCNTGGNC CCCTCCCTC ANAGCCCATG GTAACGAACC CCTAGAAAGG 60
 AGAGAACGGG CGTCAGGGGT GCACAGTCCA CAGCTGAAGA GCAAGGTTN GTGGCAGCAC 120
 GGNCGGCCC CTCACCCTCT NTNCCN 146

SEQ ID NO:7799

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09049

SEQUENCE DESCRIPTION:

GATCTCCGGA CCTCGGCTGC AGAGGCCATC GCAGCTTTTN AAAAGTNAAG TGGTTAATTC 60
CCATTGGTGT CTTNCTTAT AGCATTTCN TCTAACCTAT AACAAGGGGG CATTACATTT 120
ANCTTTAGAA CATGTGAATA GGAGGTTTNC TCATGACTTA CCATTCCAGC TGNATGGGAA 180
AGCAAAGCAG AAAACAGTGC CCCAAATGGA AAANAGNTAC TCACACAGAN CAAAACAGTT 240
CTNGGTCTTG TCCTTGGTCT TGTCAAACCT TGCCTGATGC TCTTTCTAAN GTCNAAATAT 300
GANTGATAAG CCNGGCN 317

SEQ ID NO:7800

LENGTH:372

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09050

SEQUENCE DESCRIPTION:

GATCTGGTTA AGTTGTGTAG TAAAGCATTG GGAGGGTCAT TCTTGTCACA AAAGTGCCAC 60
TAAACAGCC TCAGGAGAAT AAATGACTTG CTTTTCTAAA TCTCAGGTTT ATCTGGGCTC 120
TATCATATAG ACAGGCTTCT GATAGTTTGC AACTGTAAGC AGAAACCTAC ATATAGTTAA 180
NATCCTGGNC TTTCTTGTA AACAGATTTT AANTTTCTGA TATAAANCAN GCCNCAGGAG 240
AATTCGGGGA TTTNAGGTT NCNGAATAGC CTATATATGG TGCATCGGNT AGGTCNTTAT 300
TGATTTTTTG ACCCTTTTCG GCTTTACCTN ATGGGAAGAC CCNGTTCNTT TTAAATNAT 360
CCNGGTTTTT GN 372

SEQ ID NO:7801

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09051

SEQUENCE DESCRIPTION:

GATCAACCTC TGAATTTTAC ATCATGAATG TAATCACCAC TGGAGCTTCA CTGTTACTAA 60
ATTATTAATT TTTTGCCTCC AGTGTCTAT CTCTNAGGCT GAGCATTATA AGAAAATNAC 120
CTCTGCTCCT TTTCAATGCA GAAAATTGCC AGGGGCTTAT TTCAGAACAA CTTCCACTTA 180
CTTTCCACTG GCTCTCAAAC TCTCTAACTT ATAAGTNTTG TGAACCCCA CCCAGGCAGT 240
ATCCATGAAA GCACAAGTGA CTAGTCCTAT GATGTACAAA GCCTGTATCT CTGTGATGAT 300
TTCTGTGCTC TTTACTCTTT GCAATTGCTA AATAAAGCAG ATTTTATAAA TACAAA 356

SEQ ID NO:7802

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09052

SEQUENCE DESCRIPTION:

GATCAAGCAG ATTCCACGAA TCCTCGGCCC AGGTTTAAAT AAGGCAGGAA AGTTCCCTTC 60
 CCTGCTCACA CACAACGAAA ACATGGTGGC CAAAGTGGAT GAGGTGAAGT CCACAATCAA 120
 GTTCCAAATG AAGAAGGTGT TATGTCTGGC TGTAGCTGTT GGTCACGTGA AGATGCCNGA 180
 CGATGAGCTT GTGTATAACA TTCACCTGGC TGTCAACTTC TTGGTGTCTAT TGCTCAAGAA 240
 AANCTGGCAG ANTGTTCCGG GGCCTTATNT TNTCAAGAGC ACCNTGGGGN AAAGCCCCCA 300
 GNGGCCTNTT NTTAAGGGCA CCGTTTNGAN NTAAAATTC TNGTTANCCC AGTTCNAAA 359

SEQ ID NO:7803

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09053

SEQUENCE DESCRIPTION:

GATCCGGCCA GTTCATTGAA CAAACCTTTC CTTTTCTAA AGTTCCAGAA GCCTTCCTGA 60
 AGGTGGAAAG AGGACACGCA CGAGGAAAGA CTGTAATTAA TGTTGTTTAA ATAAAAATGC 120
 AGTTTAGTGA TAAA 134

SEQ ID NO:7804

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09054

SEQUENCE DESCRIPTION:

GATCTACTGA CATTAAGCAC TTTGTACAGT AAAAAATAAA GTCTACATTT GTTTAAAACA 60
 AA 62

SEQ ID NO:7805

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09055

SEQUENCE DESCRIPTION:

GATCTGGATG ATGGTTATGT AGCTGCATAT ATTTGTCAAC ATTCCTCATG CTGTATGTTT 60
 AGATTTGTGA TTTTACTATA TGTAATTAA TTCCTTAATA AAATACTATT ATAAAATAAA 120

SEQ ID NO:7806

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09056

SEQUENCE DESCRIPTION:

GATCTAATCT TCTGTGCTCT GTGTATTGGC GACGAGCAGG GTGAGAATAA GTGCGTGCCC 60
 AACAGCAATN AGAGATACTA CGGCTACACT GGGGCTTTCC GGTGCCTGGC TGAGAATGCT 120
 GGAGACGTTG CATTTGTGAA AGATGTCACT GTCTTGCAGA AACTGATGC CCTCCTGGAA 180

GCCTGTGAAT TCCTCAGGAA GTAAAACCN

209

SEQ ID NO:7807

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09057

SEQUENCE DESCRIPTION:

GATCTTAATT TAAAAATTA AAACCTGGNG TTTTAAAT AAAACCTTT TGTCTTAA 59

SEQ ID NO:7808

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09058

SEQUENCE DESCRIPTION:

GATCAAAGTA ATTGCTTAAA TGTCTTGTGG AATNAGCTGT CACTTTATAG TTTATGTATT 60
GTGGTGGGTA CCTTAATAAT AAAAGATTT TTAATGTAAA 100

SEQ ID NO:7809

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09059

SEQUENCE DESCRIPTION:

GATCTGTTTG ATGGTTACAT CAGTGTATAT TTGTCAAAAT TCCTCAAACGT GTATGCTTAA 60
GGCTTTGTGC ATTGTATTGC ATGTAAATNA TACTTCAATA AAGTACCAAT AGCATAAA 118

SEQ ID NO:7810

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09060

SEQUENCE DESCRIPTION:

GATCCATAAC CTCTTTAGAG ACCGGCTCCT GGATGCAGAA TCCTATGAGG TTCTGGCCAC 60
ACCTGTTTCT TGTCCNTCAG GGGCTGACAC CCATGTNCCA TCCCTCTAAA CCCCTGTCCC 120
TAAACCTACC CCATCTNATG TAACTCTGGG GTTCCTTGGT CATTAGAGGG TTTNAGGTC 180
AAA 183

SEQ ID NO:7811

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09061

SEQUENCE DESCRIPTION:

GATCTGAATG GTTTTAATAA GTGTCTGGNA ATTCCCCTGC TTGCACTTGT NTNTCTCGCC 60
 CACCACCACG TAAGACGTGC CTGCTTCCCC TTCTGCCATG ATTGTAAGTT TCCTGAGGCG 120
 TCCCCAGCCA TGCAGAACTG TGAGTCAATG AAACCTCTTT TTTTATAAA TTAAA 175

SEQ ID NO:7812

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09062

SEQUENCE DESCRIPTION:

GATCCCCCAT TCCCCACCCT GGGAGATGAG GGGGTCCCCA TGTGCTTTTC CAGTTCTTCT 60
 GGAATTGGGG GACCNCCGCC AAAGACTGAG CCCCCTGTNT CCTCCATCAT TTGGTTTCCT 120
 CTTGGCTTTG GGGATACTTC TAAATTTTGG GAGCTCCTCC ATCTCCAATG GCTGGGATTT 180
 GTGGCAGGGA TTCCACTCAG AACCTCTCTG GAATTTGTGC CTGATGTGCC TTCCACTGGA 240
 TTTTGGGGTT CCCAGCACCC CATGTGGATT TTGGGGGGTC CCTTTTGTGT CTCCCCCGCC 300
 ATTCAAGGAC TCCTNTCTTT TTTTCAANN 329

SEQ ID NO:7813

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09063

SEQUENCE DESCRIPTION:

GATCTGCCAG CCCTACATCC GGCCGGGGCC CAGGGAGGGG AGCAAGGAGA AGGCAGGTGC 60
 GCGCANAAGC GGGCCCTGGA GGAAGAGGAG GGTGGCACGG AGGTCCTGTC CAAGAACAAG 120
 CAAAAGAAGC AGCTGAGGAA CCCCCACAAG ACCTTCGACC CCTCTTTGAA GCCAAAATAT 180
 GCAAAGTNTG ACCAGTGTGG AAACCCAAAG GGCAACAGAT GTNTGTTCAG CCTGTGCCGN 240
 GGCTGCTGCA NGANGCGNGC CTTCAAAGNG ACTGCAGACT GNCCAGGTNA CGGTTTGCTT 300
 TTTAAACCA ATTTNGGAGA AGTTTN 326

SEQ ID NO:7814

LENGTH:20

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09064

SEQUENCE DESCRIPTION:

GATCGGAATG NAAATCTAAA 20

SEQ ID NO:7815

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09065

SEQUENCE DESCRIPTION:

GATCAATGTT GAAAGTGTG TTATATGGCA AGTNTTTAAC ACATTCACAG TGTTTGTTTG 60

ATTCAACTG TGAATTGTCT TACAGTTTTT TCAAACCTAG TTGTTTCTAT GGACACCTGC 120
TCTGAATTGT ACATTGACTN CATTACTAAA GAACAAAAAT GTTCATTTTT GTCCCAGTAA 180
ATTGAGACTG CTTGTACACT TTCAGAAAAA TATGTGAATT TATAAAGNTT TTGTAGATAC 240
TTGTCAAA 248

SEQ ID NO:7816

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09066

SEQUENCE DESCRIPTION:

GATCCCCGGA TTNACACTC CTTCTGTTTT GTTGCCGTTT ATTTTGTAC TCAAATCTCT 60
ACATGGAGAT AAATNATTTA AACCAAA 87

SEQ ID NO:7817

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09067

SEQUENCE DESCRIPTION:

GATCCACCTG NCCCTGACCT CCGACAGTGC TGGGATTACA GGCATAGCCA CCGTGCCTGA 60
CCAGGGCTCT TTTAGCAAGG AAAACGTGAG GAATGAATGG CTGTTGGTGT GCAACAAATC 120
ATACTTGCTA CATGTTGTGA ACCTGAAGTT ATTTGTTAGT CTGTATGAAG AATGTACCCC 180
AGAGATGCAC CCTGTATCTG CCTTATGTCT CTTACAATGG AGGTTCTCTC CTGTTATATT 240
GCTGAATAAA CTATGTGAAC TGCTAAA 267

SEQ ID NO:7818

LENGTH:22

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09068

SEQUENCE DESCRIPTION:

GATCTTCAAG CAAGAAAATA AA 22

SEQ ID NO:7819

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09069

SEQUENCE DESCRIPTION:

GATCATAGCT GAAAATTAAT GATACTGTCA ATTTGAGATA GCAGAAAGTTT CACACATCAA 60
AGTAAAAGAT TTGCATATCA TTATACTAAA 90

SEQ ID NO:7820

LENGTH:25

TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS09070
SEQUENCE DESCRIPTION:
GATCATTAAA AAATTAATAA AGAAA 25

SEQ ID NO:7821
LENGTH:33
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS09071
SEQUENCE DESCRIPTION:
GATCCCAATG AAACGAATC TGTCTCCCTG AAA 33

SEQ ID NO:7822
LENGTH:23
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS09072
SEQUENCE DESCRIPTION:
GATCTTCAAG CAAGTTAANT AAA 23

SEQ ID NO:7823
LENGTH:75
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS09073
SEQUENCE DESCRIPTION:
GATCTTCATT TAGCTCCTTT ACTGGGATTT ATTGGATGCT NGTAAAAAAA TAAAATTAC 60
ACTGTNTATG CGAAA 75

SEQ ID NO:7824
LENGTH:284
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS09074
SEQUENCE DESCRIPTION:
GATCAAGAAA GGGCTGTGGC TTGTATCAAA GGGTGTTTAA AAGGATTTAC TATCAGATTT 60
GGCCTTGTTT TCTGTGATTT TGGNNAGCGT TCAAGGAAGC CAGGCTTTGG TCTGGATTGG 120
ATGTTCTCAG GTCATGAATA TAATTCTCTG GGAAGTCCCA AAGTTCTCAT CTACAAAGCA 180
GAAGTTAATT GGAGCTGAAA ACTAATCAGT AAAGCCACAG CAGCCAGTCA TATGGGGGAG 240
AAGAGGGGAA TGTTTGATGG TTTTGTGGT TTAGAGGTGA GTTN 284

SEQ ID NO:7825
LENGTH:21

TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS09075
SEQUENCE DESCRIPTION:
GATCCTTTGT TAACAAATAA A

21

SEQ ID NO:7826
LENGTH:159
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS09076
SEQUENCE DESCRIPTION:
GATCATATTT ATTTTAACTA TTTTTTTAGA AAATTATTAA TTTAATTGT ATTTTGTAT 60
TTAAAAAGCT TCTTCACTTG TTTCCCTAA NNNTTCANAT TGCTGCCCAA AAGTATGACT 120
GTGGAGGAAA AAAAANTACT TNAANTCC AACTTTTN 159

SEQ ID NO:7827
LENGTH:328
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS09077
SEQUENCE DESCRIPTION:
GATCTGTGCA GGGTATTAAC GTGTCAGGGC TGAGTGTTCT GGGATTTCTC TAGAGGCTGG 60
CAAGAACCAG TTGTTTTGTC TTGCGGGTCT GTCAGGGTTG GAAAGTCCAA GCCGTAGACC 120
CAGTTTCCTT TCTNAGCTGA TGTCTTTGGC CAGAACACCG TGGGCTGTTA CTTNCNTTNA 180
GTTGGAAGCG GTTTCATTT ACGCCTGTAA ATGTATTGAN TCTTAANTTA TGTAAGGTNT 240
TTNTTGTACG CAATTCTCGG TTCTTTGANG NGATGGCAAC AAATTTTGGG NTTCTACTGT 300
TATGTTGGGG NNCATTNGGG CCCANGNN 328

SEQ ID NO:7828
LENGTH:108
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS09078
SEQUENCE DESCRIPTION:
GATCTCCTGA CCTCGTCATC CGCCCGTNTC GGCCTCCCAT AGTGCTGGGN TTACAGGCAT 60
GAGCCACCAC GCCCGGCTGT TTTATTTCTT ATAAGTGTAC AGGANNNN 108

SEQ ID NO:7829
LENGTH:277
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS09079
SEQUENCE DESCRIPTION:
GATCATGAAG CCATCAGCTC CTCTGGGGCC AGCTANAGGA CAACAGAACT NTCACCAAAG 60

GACCAGACAC AGTGAGCACC ATGGGACAGT NTCGGTCAGC CAACGCAGAG GATGCTCAGG 120
AATTCANTGA TGTGGNGAGG GCCATTGAGA CCCTCATCAA GAACTTTCAC CAGTACTCCG 180
TGGAGGGTGG GNAGGNGACG CTGACCCCTT CTAAGCTACG GGACCNGGGT CACCCAGCAG 240
CTGCCCCATN TTNATGCCGA GCAACTTNTN GNCTGGN 277

SEQ ID NO:7830

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09080

SEQUENCE DESCRIPTION:

GATCAGACCA AACAGTGCTG TTTCCCGGGG AGGAAACACT TTTTAAATTA CCCTTTTGCA 60
GGCTCCCACC TTTAATCTGT TTTATACCTT GCTTATTTAA TGAGCGACTT AAAATNATTG 120
AAA 123

SEQ ID NO:7831

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09081

SEQUENCE DESCRIPTION:

GATCCAGAAA TGGAGACTGG ACCTTCCAGA CCCTGGTGAA TGCTGGAAAC AGTTCCTCGG 60
AGTGGAGAGG TTTACACCTG CCAAGTGGAG CACCCAAGCC TGACGAGCCC TCTNACAGTG 120
GAATGGAGAG CACGGTCTGA ATCTNCACAG AGCAAGATGC TGAGTGGAGT CGGGGGCTTC 180
GTGCTGGGCC TGCTCTTCCT TGGGGCCGGG CTGTTCATCT ACTTCAGGAA TCAGAAAGGA 240
CACTCTGGAC TTCAGCCAAC AGGATTCTTG AGCTGAAGTG AAGATGNCCA CATTCAAGGA 300
AGAACCTTCT GCCCCAGCTT TGCAGGATGA ANCACTTN 338

SEQ ID NO:7832

LENGTH:309

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09082

SEQUENCE DESCRIPTION:

GATCTAATCT CAAATACAGT GCTTAGTAAG GGAACCTCTG TGCCTTTGGG GATTGAGGGA 60
TTAAAACGAA TCTTTTAAAT ATATTTCCAA ATATTTAAAT ATAAAAGGAT ATTCCTCTG 120
ATGTTAAAAG TGAGTATGGG GGTGGCACAT TATATGAAA GTNCCATGTT TGCTTAANTG 180
CTATGTAAAA TAACTTGCA TATTANTGA CTTTGANTGT GAAANTCATA TGCCCTTNGA 240
NTATGGNTGC CTTAGCTCAT TTGACANTG GNAGANTACT TGTNTATCTN GTTTNAGACA 300
CATTGANTN 309

SEQ ID NO:7833

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09083

SEQUENCE DESCRIPTION:

GATCCAAAGT GGCAGGAGGT CTGTGTTGTC ATGGNGAACT GGAGTTTCTC TTGTAAGAGT 60
TCCCTCATCT GAAATCATGT ATCTNTCTCA CAAATACAAG CATAAGTAGA AGATTGTGTTG 120
AAGACATAGA ACCCTTATAA AGAATTATTA ACCTTTATAA NCATTTAANG TCTGTNAGC 180
ACCTGGGAAT TAGTATAATN CCANTGTAA TTTTTNNAT TTACATTTTG TNN 233

SEQ ID NO:7834

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09084

SEQUENCE DESCRIPTION:

GATCGGAATT TNACAGAATT GGGACTGTGG AACCNNGGGT CACTTGAATT TCCTATATTT 60
TGTATGGCCA AATCAGGAAC CAGACAGTCT CCATAGTCN 99

SEQ ID NO:7835

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09085

SEQUENCE DESCRIPTION:

GATCAGCCGA TGACAGAGAT TGTAAGCCGT GTGTCGAAGC GAAACTGGNG CCGCCACGTG 60
CGGGCNCCTGG TGCTTGACCT GTGCTGTAAC GACGAGAGCG GCGAGGATGT CGNGGGGCNA 120
NAAAANCNGT ACACCATCCG CTGACCCCGT CTGCTCCTCT AGGCTGGCCC CTTGTCCACC 180
CCTCTCCACA CCCCTTCCAG CCCAGGGTTC CCATTTGGCT TCTGGCAGTG GCCCAACTAG 240
CCAAGTCTGG TGTTCCTCA TNATCCCNCT TACCTGAACC CNTNTTGN 288

SEQ ID NO:7836

LENGTH:32

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09086

SEQUENCE DESCRIPTION:

GATCTAAATA AAATGGACNG TTCTACCTTA AA 32

SEQ ID NO:7837

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09087

SEQUENCE DESCRIPTION:

GATCTGAAAC AGATGAAAGT TATAATAGTT TACATACCTT ACCTTAAAGT ATGGTTTTTA 60
AATACTTAAG ATGTGATATG ACATATAGTG TGTATATATA TCTNATNCTA NNGGAAAAAG 120
GGACATTAAG AAAGCTTATG TAAAAAGATA AA 152

SEQ ID NO:7838

LENGTH:108

TYPE:nucleic acid

STRANDEDNESS:single

TOPOLOGY:linear

SEQUENCE DESCRIPTION:

GATCGTTCTT CATGGGGTA AGAAAAGCTG GTCTGGAGTT GCTGAATGTT GCATTAATTG 60

TCCTGTTTGC TTGTAGTTGA ATAAAAATAG AACCTGAAT GAAGGAAA 108

SEQ ID NO:7839

LENGTH:30

TYPE:nucleic acid

STRANDEDNESS:single

TOPOLOGY:linear

SEQUENCE DESCRIPTION:

TGAAAATTTA TTACTACAGT GTTTTCACCA 30

SEQ ID NO:7840

LENGTH:20

TYPE:nucleic acid

STRANDEDNESS:single

TOPOLOGY:linear

SEQUENCE DESCRIPTION:

TAATACGACT CACTATAGGG 20

SEQ ID NO:7841
LENGTH:25
TYPE:nucleic acid
STRANDEDNESS:single
TOPOLOGY:linear
SEQUENCE DESCRIPTION:
CTTCTTTCTG TAGCCAGGTA ACTCT

25

SEQ ID NO:7842
LENGTH:25
TYPE:nucleic acid
STRANDEDNESS:single
TOPOLOGY:linear
SEQUENCE DESCRIPTION:
TTTTCGGCGC TCCCATTTAT TCCTT

25

SEQ ID NO:7843
LENGTH:35
TYPE:nucleic acid
STRANDEDNESS:single
TOPOLOGY:linear
SEQUENCE DESCRIPTION:
CACGAATTCA CTATCGATTC TGGAACCTTC AGAGG- NH2

35

SEQ ID NO:7844
LENGTH:37
TYPE:nucleic acid
STRANDEDNESS:single
TOPOLOGY:linear
SEQUENCE DESCRIPTION:
CTCGCTCGCC CATCCTTATA CAGGCTCAGT TTTGTCT

37

SEQ ID NO:7845
LENGTH:37
TYPE:nucleic acid
STRANDEDNESS:single
TOPOLOGY:linear
SEQUENCE DESCRIPTION:
CTCGCTCGCC CATGTATAGG GACAGCATTT CTGAGAG

37

SEQ ID NO:7846
LENGTH:38
TYPE:nucleic acid
STRANDEDNESS:single
TOPOLOGY:linear
SEQUENCE DESCRIPTION:
CTGGTTCGGC CCACCTCTGA AGGTTCCAGA ATCGATAG

38

SEQ ID NO:7847

LENGTH:22

TYPE:nucleic acid

STRANDEDNESS:single

TOPOLOGY:linear

SEQUENCE DESCRIPTION:

CCAGGGTTTT CCCAGTCACG AC

22

SEQ ID NO:7848

LENGTH:22

TYPE:nucleic acid

STRANDEDNESS:single

TOPOLOGY:linear

SEQUENCE DESCRIPTION:

TCACACAGGA AACAGCTATG AC

22

02208